

Historic, Archive Document

Do not assume content reflects current scientific knowledge, policies, or practices.

62.71

10 S.O.



TESTED SEEDS



U.S. DEPARTMENT OF AGRICULTURE
LIBRARY
Washington, D.C.

1912 ANNUAL CATALOGUE



OUR NEW STORE

D. A. WHITE & SONS

251-261 STATE STREET - - SALEM, OREGON

INDEX

Garden Seeds are arranged in alphabetical order, starting on page 2

Barrels	21	Kale	21
Bee Supplies	24-25	Lice Killers	32
Bird Seed	18	Millet	
Bone Mill	29	Mole Traps	22
Brooders	26-35	Oats	20
Buckwheat	21	Onion Sets	12
Cheat Seed	21	Plants	18-19
Chick Feed	30-31	Plant Food	34
Clover Seed	19-20	Potatoes	19
Corn Planters	22	Potash	34
Egg Foods	30-31	Poultry Supplies	24-32
Farm and Field Seeds	20-21	Poultry Food	30-32
Fertilizers	34	Rape Seed	21
Field Peas	21	Rye	21-22
Flax Seed	21	Seed Sowers	21
Flower Seeds	22-23	Sheep Dip	33
Flower Pots and Pans	23	So-Bos-So Killfly	33
Fly Sprays	33	Spray Material	33-34
Garden Seeds	2-19	Stock Food	32-33
Gopher Guns and Traps	22	Sunflower Seeds	18
Grass Seeds	19-20	Thermometers	30
Grafting Wax	34	Traps	22
Grain Cleaner	36	Vegetable Plants and Roots ...	18-19
Incubators	26-27	Vetches	21
Kow Kure	33	Wheat	20

D. A. WHITE & SONS

TWENTY-FIRST ANNUAL OFFERING OF RELIABLE

SEEDS, POULTRY AND BEE SUPPLIES

THIS SEASON finds us in a new location, better prepared than ever to take care of your valued orders. We have recently built a new building especially adapted to our business and now have the best arranged store in our line in the state. The building has been constructed and the interior arranged so that everything can be handled at the minimum cost of expense. This makes it possible for us to handle your business more satisfactorily to you and ourselves, and allows us to handle on a lower margin than formerly, you getting the benefit of that advantage by trading with us.

Our stock this season has been selected with great care and we believe that we have secured the best that the market affords in all lines.

We thank you for your esteemed patronage the past season, and trusting that the same friendly spirit may continue, we remain,

Sincerely and gratefully,

D. A. WHITE & SONS.

IMPORTANT INSTRUCTIONS

How to Send Money. Remittances should be made by Post Office or Express Money Order, Bank Draft or Registered Letter. Postage Stamps will be received for small amounts. Remittance in any other way at sender's risk.

Be Sure to Sign Your Name and give Post Office and State. And to avoid mistakes, do not write letters on same sheet with order.

Seeds Postpaid by Mail. We can send all vegetable and flower seeds in quantities of one pound or less by mail, postpaid, to any office in the United States at the price named in this catalogue, unless otherwise stated.

Prepay Stations. When you send in orders to go by freight or express, be sure that you add money enough to pay freight charges if your station is a prepay, which is always where there is no regular agent.

Large Orders. Any dealer, market gardener, institution or individual, wishing seed in large quantities is requested to mail us a list of what is wanted, and we will promptly return it with the very lowest market price. A letter of inquiry may save you dollars, if you want to buy in quantity.

WHITE'S SELECTED VEGETABLE SEEDS

DISCLAIMER

We use every precaution in procuring fresh, pure and reliable seeds, etc., but we, in common with other responsible seed houses sell subject to the following disclaimer, it being that adopted by the American Seed Trade Association, i. e.—We give no warranty, express or implied, as to the description, quality, productiveness or any other matter of any seeds, bulbs or plants sent out, and will not be in any way responsible for the crop. If the purchaser does not accept the goods on these terms they are at once to be returned.

D. A. WHITE & SONS.

ASPARAGUS

Conover's Colossal. One of the best varieties. Quality first class. Pkt. 5c, oz. 10c; lb. 80c; postpaid.

BEANS

If wanted by mail, add 10c per lb. for postage.

DWARF OR BUSH — GREEN PODDED

Stringless Green Podded. Without doubt the best green-podded variety on the market. Is very early; pods are long, rather round, very fleshy. Fine for market and home garden. Lb. 15c; 10 lbs. \$1.35.

Extra Early Red Valentine. A popular variety. Erect vine; pods of medium length, fleshy and with only slight strings. Lb. 15c; 10 lbs. \$1.15.

Dwarf Horticultural. A very vigorous variety; used as green shelled as well as a string or dry bean. Pods medium length. Lb. 15c; 10 lbs. \$1.15.

Extra Early Refugee. A very early variety with medium-sized pods; fleshy and cooks tender and nice. Lb. 15c; 10 lbs. \$1.15.

Castor Beans. Used for medicinal purposes, and claimed to keep moles away. Lb. 25c.

WAX-PODDED BUSH BEANS

Davis White Wax. Rustless and very productive; hardy and one of the best for market gardeners. The dried bean is kidney shaped, clear white and a favorite for baking and canning. Lb. 15c; 10 lbs. \$1.35.

Golden Wax. One of the most popular garden varieties in cultivation. Pods are long and a beautiful golden yellow, crisp and tender. Lb. 15c; 10 lbs. \$1.25.

Challenge Black Wax. The earliest of all wax beans. Excellent quality and very productive. Lb. 15c; 10 lbs. \$1.25.

German Black Wax. Very vigorous and a heavy yielder. Pods fairly long, golden-yellow, very brittle and stringless. Lb. 15c; 10 lbs. \$1.25.

POLE BEANS — GREEN AND WAX PODDED

Kentucky Wonder, or Asparagus. The most popular of the pole beans for both garden and market. It grows luxuriantly and bears for a long time. Fine for table and canning. Pods are very long, very fleshy and deeply creased; green in color and stringless. Lb. 15c; 10 lbs. \$1.25.

Kentucky Wonder Wax. An excellent variety, and one of the best pole

beans. Pods are long, very thick, entirely stringless and a bright yellow in color. Lb. 15c; 10 lbs. \$1.40.

Horticultural. An old favorite. Pods short, pale green, splashed with red. Used green or dry shelled. Lb. 15c; 10 lbs. \$1.25.

Lazy Wife. A green-podded variety bearing long pods in clusters. Stringless and of fine flavor. Lb. 15c; 10 lbs. \$1.25.

White Dutch Case Knife. A climbing variety with long flat pods which become creamy white as they mature. Lb. 15c; 10 lbs. \$1.25.

White Creaseback. An early green-podded variety; pods five to six inches long, deeply creased and borne in clusters; very fleshy and stringless. Beans white and can be used as a dry bean in winter. Lb. 15c; 10 lbs. \$1.25.

Scarlet Runner. The well-known and old-fashioned climber; bright scarlet flowers; also used as a shell bean. Lb. 25c.

LIMA BEANS

Burpee's Bush. The best dwarf variety. Very prolific. Pods and beans large; fine for green shelled. Lb. 15c; 10 lbs. \$1.25.

Large White Lima. A good variety of the pole kind. Is very prolific and of good quality. Lb. 15c; 10 lbs. \$1.25.

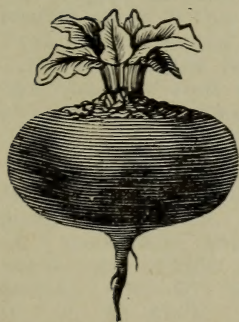
Early Leviathan. One of the newer varieties and the very best pole variety. Vine very tall and strong; pods long and borne in clusters; beans large and white; is early and prolific. Lb. 15c.

FIELD BEANS

Royal Dwarf Kidney. This bean is large, long and slightly curved, and pure white; it yields a heavy crop and is one of the very best either green shelled or dry. Lb. 15c; 10 lbs. \$1.10.

Lady Washington. This small white bean is a great improvement over the old navy bean; a heavy yielder and suitable for this climate. Lb. 15c; 10 lbs. \$1.00.

BEETS --- TABLE VARIETIES



White's Improved Blood Turnip. We have this grown especially for us, and can recommend it as one of the very best table beets; a turnip-shaped variety with deep red flesh; tops green. Pkt. 5c; oz. 10c; lb. \$1.25.

Extra Early Egyptian. One of the best known and most popular varieties. Is very early and of fine quality. Bright red with clear vermillion flesh. Pkt. 5c; oz. 10c; lb. \$1.25.

Extra Early Eclipse. A fine, early table variety, tapering, globe shaped. Flesh, deep crimson, zoned with pink. Pkt. 5c; oz. 10c; lb. \$1.25.

Detroit Dark Red. One of the best table varieties. Globe shaped, bright but rich red flesh. Pkt. 5c; oz. 10c; lb. \$1.25.

Half Long Blood. Grows about eight inches long. Very rich, deep red flesh of fine color. Pkt. 5c; oz. 10c; lb. \$1.25.

Long Dark Smooth Blood. The leading late variety, keeping well all the winter. Flesh deep purple, fine and sweet. Pkt. 5c; oz. 10c; lb. \$1.25.

MANGEL WURZEL, SUGAR AND STOCK BEETS

Should be grown more extensively, as they afford an abundance of feed at a small outlay. Prices are uniform as follows: Oz. 5c; $\frac{1}{4}$ lb. 15c; lb. 50c; 5 lbs. \$2.00; 10 lbs. \$3.50. Five and ten-pound lots by freight or express at purchaser's expense.

Mammoth Long Red. Grows to a very large size and makes fine feed. Very uniform, smooth and of good shape. Often yields from 40 to 50 tons per acre. Should be grown in deep loose soil.

Golden Tankard. A very large mangle growing about half out of the ground. Considered the best for dairymen.

Yellow Giant. Roots very large; flesh white, sweet and tender. An enormous cropper.

French Sugar Beet. Flesh white and tender. Fine for table and stock feeding.

New Mangle Half Sugar. Fine for stock feeding. Does not yield as heavy as the mangles, but makes better feed.

SWISS CHARD BEET

Cultivated for its stalks and leaves, which are prepared and served similar to asparagus. Tender and delicious. Pkt. 5c; oz. 10c; lb. 60c.

BROCCOLI

Broccoli is very much like cauliflower in general appearance and growth, but is hardier and will stand more cold and frost. Produces fine heads from late in the fall until early in the spring, according to time plants are set out. Culture same as cauliflower.

Large White French. A valuable variety, with large heads, firm and of good quality. Pkt. 5c; oz. 40c.

BRUSSELS SPROUTS

Dwarf Improved. A carefully grown variety, very hardy, and giving compact, round sprouts of large size and good quality. Pkt. 5c; oz. 15c.

COLLARDS

Used as greens. As the leaves are pulled off others grow in their places. Pkt. 5c; oz. 15c.

CRESS

Curled or Pepper Grass. Used as a salad dressing. Pkt. 5c; oz. 10c.

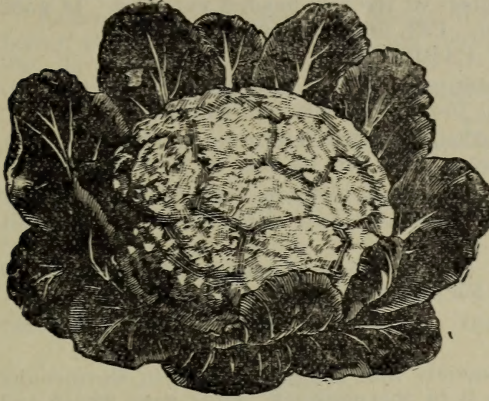
Water Cress. Forms a plant, the leaves of which are used for salad or dressing. Thrives only when the roots and stems are submerged in water. Pkt. 5c; oz. 35c.

CHICORY

Large Rooted or Coffee. The favorite variety. Pkt. 5c; oz. 10c; lb. 75c.

CAULIFLOWER

CULTURE—The cauliflower succeeds well in any soil where cabbage will grow.



Large Algiers. A valuable late sort, sure to head, of the best quality, and very popular with market gardeners everywhere. One of the very best late varieties. Pkt. 5c; oz. 75c.

Early Snowball. The best and most popular variety grown. There is a vast difference in the strains of this variety offered, but what we offer is the best imported stock. Those who have had trouble with cauliflower should try this Snowball; uniformly fine heads, even under adverse conditions. Pkts. 10c, 25c; $\frac{1}{4}$ oz. 75c; oz. \$2.50.

Oregon Wonder. A late variety, forming good, large, solid heads during the winter. This variety has given great satisfaction in Oregon wherever tried. Pkt. 10c; $\frac{1}{4}$ oz. 25c; oz. 75c.

Dry Weather. A strain of the Early Snowball type, which is especially adapted to drier climates. It is a Danish variety (the best cauliflower comes from Denmark), and is destined to become very popular in our climate. Pkt. 10c; $\frac{1}{4}$ oz. 75c; oz. \$2.50; $\frac{1}{4}$ lb. \$8.00.

CABBAGE

CULTURE—For the earliest supply seed may be sown in September and the plants wintered over in coldframes, or seed started in hot beds or cold frames early in the spring. For the fall crop seed should be sown early in June and the young plants transplanted to the rows during the latter part of July. In planting be sure to set the young plants down to the first leaves. One ounce of seed will sow 300 feet of drill; 4 ounces sown thinly should provide plants enough for one acre.

EARLY VARIETIES

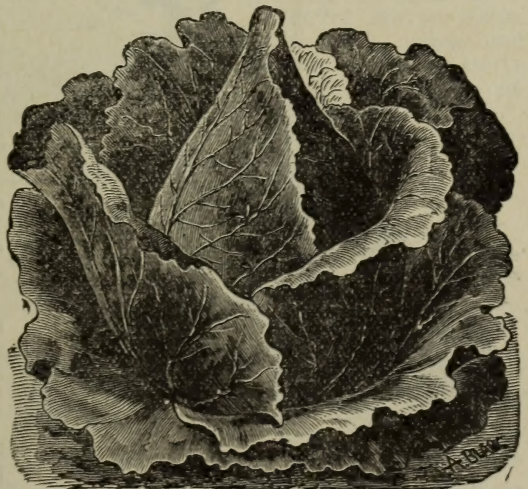
Early Jersey Wakefield. The favorite early cabbage with market gardeners. Heads are of a good size, solid, a sure header and always give satisfaction. Pkt. 5c; oz. 15c; $\frac{1}{4}$ lb. 50c; lb. \$1.75.

Early Drumhead. Heads flattened. A good keeper. Pkt. 5c; oz. 15c; $\frac{1}{4}$ lb. 50c; lb. \$1.75.

Early York. Small, but very early. Pkt. 5c; oz. 15c; $\frac{1}{4}$ lb. 50c; lb. \$1.75.

Early Winningstadt. Conical solid head. A fine keeper. Pkt. 5c; oz. 15c; $\frac{1}{4}$ lb. 40c; lb. \$1.50.

Henderson's Early Summer. The head is round and the largest of the early kinds. Is firm and of the best quality. Pkt. 5c; oz. 15c; $\frac{1}{4}$ lb. 50c; lb. \$1.75.



Early Flat Dutch. Firm, fine grained and tender. Pkt. 5c; oz. 15c; $\frac{1}{4}$ lb. 50c; lb. \$1.60.

Charleston, or Large Wakefield. Larger and a little later than the Jersey Wakefield. Pkt. 5c; oz. 15c; $\frac{1}{4}$ lb. 50c; lb. \$1.75.

Allhead Early. Probably the earliest of the flat-headed varieties. Is good for summer, autumn or winter crop. Pkt. 5c; oz. 15c; lb. \$1.75.

LATE CABBAGE

Premium Late Flat Dutch. Considered the best late cabbage for all purposes. A sure header. Pkt. 5c; oz. 15c; $\frac{1}{4}$ lb. 50c; lb. \$1.75.

Premium Late Drumhead. Has no superior for family or market purposes, either for medium early or late purposes. Pkt. 5c; oz. 15c; $\frac{1}{4}$ lb. 50c; lb. \$1.75.

Hollander, or Danish Ball Head. Head of medium size, round and very solid. The finest cabbage ever sold on the market. Pkt. 5c; oz. 25c; $\frac{1}{4}$ lb. 90c; lb. \$3.00.

Autumn King, or World Beater. A sure header, very solid, fine grained and tender. Pkt. 5c; oz. 15c; $\frac{1}{4}$ lb. 50c; lb. \$1.75.

Sure Head. A favorite with many. Certain to head. Pkt. 5c; oz. 15c; $\frac{1}{4}$ lb. 50c; lb. \$1.75.

Perfection Drumhead Savoy. A variety that is much prized in Europe and also by those who are familiar with it in this country. It is very sweet and always tender. Heads medium sized and fairly compact. Pkt. 5c; oz. 20c; $\frac{1}{4}$ lb. 60c; lb. \$2.00.

Succession, or All Seasons. Heads large, slightly flattened; grows low on the stem. Pkt. 5c; oz. 15c; lb. \$1.75.

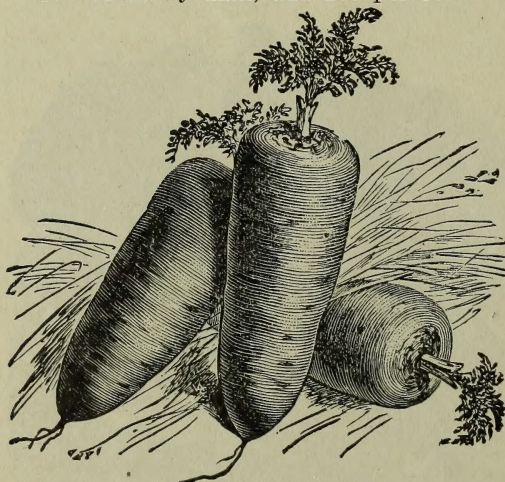
Mammoth Rock Red. Used for pickling. The heads are very fine and a sure header. Pkt. 5c; oz. 15c; lb. \$1.75.

CARROTS

CULTURE—For early carrots for table use sow as early as the ground can be worked; for late crop until the latter part of July; early in August for a winter crop. For the main crop, sow from the middle of May to the first of July. Thin out in the row from 5 to 6 inches apart, with rows 12 to 14 inches apart. Hoe often and deeply between the rows. Light, sandy loam, richly manured is best soil.

One ounce will sow about 125 feet of drill; 4 lbs. will sow an acre.

If wanted by mail, add 10c per lb.



Earliest Short Horn, or French. Very early, reddish brown, globular and about two inches in diameter. Pkt. 5c; oz. 15c; lb. \$1.50.

Early Scarlet Horn. The best early kind for general use. Fine quality. Pkt. 5c; oz. 15c; lb. \$1.50.

Chantenay. The market gardeners' favorite. Fine cooking variety. Deep orange in color. Flesh very crisp and tender. Pkt. 5c; oz. 15c; $\frac{1}{4}$ lb. 40c; lb. \$1.25.

Danvers Half Long. The smooth handsome roots are orange, of medium length. A heavy producer and a fine feed. Pkt. 5c; oz. 10c; $\frac{1}{4}$ lb. 35c; lb. \$1.25.

Ox Heart. A thick carrot, 5 or 6 inches long and very blunt at lower end. A favorite carrot for

market and home gardens. Pkt. 5c; oz. 10c; $\frac{1}{4}$ lb. 35c; lb. \$1.25.

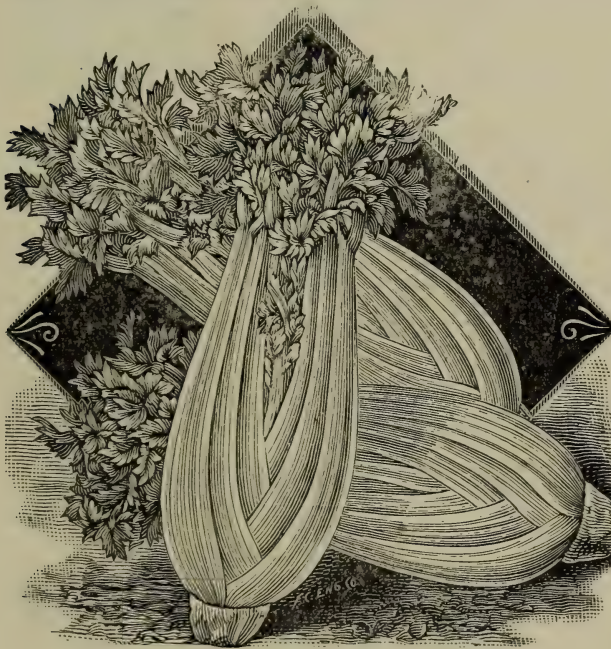
Long Orange. One of the best for stock feeding. Grows to a large size. Pkt. 5c; oz. 10c; $\frac{1}{4}$ lb. 35c; lb. \$1.15.

Large White Belgian. Grown for stock feeding. Very productive. Grows so much above ground that it is easily pulled by hand. Pkt. 5c; oz. 10c; $\frac{1}{4}$ lb. 25c; lb. 80c.

Large White Mastodon, or Short White. Roots half long, smooth, very heavy at the shoulder, but tapering regularly to the point. Very productive. Pkt. 5c; oz. 10c; $\frac{1}{4}$ lb. 25c; lb. 80c.

CELERY

CULTURE—Sow the seed early in a hotbed or coldframe. As soon as the plants are three inches high, transplant in a prepared border, setting them four inches apart. When grown six inches and fine stocky plants, set in richly manured, deep soil in rows three feet apart, and about 9 inches from plant to plant. Water if dry weather follows transplanting. One ounce produces about two thousand plants.



White Plume. The leading white celery. A handsome crisp sort of very easy cultivation. Pkt. 5c; oz. 25c; lb. \$2.

Golden Self Blanching. The best celery for early market use. Easily blanched. Pkt. 5c; oz. 50c; $\frac{1}{4}$ lb. \$1.50.

Winter Queen. This is, without doubt, the most valuable variety of celery for winter and spring use ever introduced. Has double the heart of any known celery. It is beautiful in appearance, of close habit and compact growth, and blanches to beautiful cream white. Ribs solid, crisp and have a delicious nutty flavor. Pkt. 10c; oz. 35c; $\frac{1}{4}$ lb. \$1.00.

Celeriac, or Turnip-Rooted Celery. Pkt. 5c; oz. 15c; $\frac{1}{4}$ lb. 50c.

SWEET OR SUGAR CORN

Early Mammoth. A new variety that gives the very best of satisfaction. Large ears, well filled with sweet white kernels. Fine for market. Lb. 10c, 10 lbs. 85c.

Stowell's Evergreen. The most popular and best late variety. Fine for table use and is also used very extensively for stock feeding and ensilage. The most productive corn grown. Six to eight feet high and remains in condition to use for a long time. Lb. 10c; 10 lbs. 85c.

White Evergreen. Very similar to the above, but has the quality of being snow white. Lb. 10c; 10 lbs. 85c.

Early Minnesota. The favorite for garden and market. Stalks about five feet high; ears long and eight rowed. Lb. 10c; 10 lbs. 80c.



Peep o' Day. Ten days earlier than any other white sweet corn. Sweet and very productive. Fine for market or garden. Per lb. 15c.

Early White Cory. An extra early white variety with remarkably white sweet grains. Ears six or seven inches long, and of good quality. Lb. 10c; 10 lbs. 85c.

Mammoth Early Cory. Larger than the Early White Cory, but only a few days later. Sweet, tender and fine for market. Lb. 10c; 10 lbs. 85c.

Late Mammoth. Similar to the above, but a trifle later and larger. Very productive. Lb. 10c; 10 lbs. 85c.

Early Evergreen. About ten days earlier than Stowell's and a trifle smaller ear. Of the best quality and a good corn to follow the extra early. Lb. 10c; 10 lbs. 85c.

Country Gentleman. One of the best late varieties. Fine flavored and sweet. Lb. 15c.

FIELD CORN

Field corn is being grown successfully in the valley; the only trouble has been in getting varieties suitable for this climate. In the following list we have taken varieties that have been tested out and made good here.

Oregon Yellow Dent. Our seed is selected from the best growers, and will ripen here, as it is acclimated. We have the largest trade in the state on Oregon-grown corn for seed purposes. Lb. 5c; 10 lbs. 50c; 100 lbs. \$4.00.

Pride of the North. The best variety for fodder and ensilage. Grows to a good height. 10 lbs. 50c; 100 lbs. \$4.00.

Leaming. A popular, tall-growing variety. Is early, stalks are leafy, making fine fodder or ensilage. Kernels are long and a deep golden yellow. 10 lbs. 50c; 100 lbs. \$4.00.

King of the Earlies. A large yellow dent that is suitable for this climate. It is a great producer and fine for both corn and fodder. 10 lbs. 50c; 100 lbs. \$4.00.

Minnesota King. A variety that is recommended very highly for this valley. Small cob and large kernel, and a heavy yielder. 10 lbs. 50c; 100 lbs. \$4.

Early White Mastodon. This is an early white corn that seems to do fine here. It has been tried for several years and is a very heavy producer. 10 lbs. 50c; 100 lbs. \$4.00.

Champion White Pearl. A large, late variety with pearly white kernels. Very popular with dairymen on account of the great amount of feed that it makes. 10 lbs. 50c; 100 lbs. \$4.00.

If you want a Corn that will ripen every year, try the Flint Corn.

Sanford White Flint. An early tall variety, bearing large ears, which are well filled with pure white kernels. 10 lbs. 50c; 100 lbs. \$4.25.

King Phillip. An extremely early red corn that does well here. Ears long and well filled. A sure cropper. 10 lbs. 50c; 100 lbs. \$4.25.

Longfellow—Yellow Flint. A flint corn that produces a fine, large, long ear. Will ripen any season. Fine for feed. 10 lbs. 50c; 100 lbs. \$4.25.

Canada Flint. An extremely early, eight-row corn that is adapted to this climate. Yellow kernels and sure to ripen. 10 lbs. 50c; 100 lbs. \$4.25.



POP CORN

White Rice. The old favorite. Does well here. lb. 10c; postpaid, 20c.

Queen's Golden. A very beautiful new corn that is very productive. Lb. 10c; postpaid, lb. 20c.

CUCUMBERS



Early Short Green, or Early Frame. An excellent sort for both table and pickling. Small and early.

Early Cluster. Very early and productive. Fine for pickling.

Chicago Pickling. The great pickling variety. An old favorite.

Peerless White Spine. The best cucumber for all purposes, as it is good for table use and can not be beat for pickling.

Improved Long Green. The old family favorite. Very productive and a fine cucumber for family and market.

Japanese Climbing. A new variety that climbs a fence or trellis and produces a very large fruit that is of excellent quality. Pkt. 5c; oz. 10c; lb. \$1.25.

In this latitude it is useless to plant in the open ground until nearly the first of May. Make hills two feet in diameter and about six feet apart, and enrich them with well rotted manure. Plant a dozen or more seeds, covering half an inch deep. When all danger from insects is over, pull all but three or four of the strongest plants. One ounce for fifty hills; two pounds per acre when planted in hills. Pkt. 5c; oz. 10c; lb. 80c, except as noted.

ENDIVE

This is a hardy vegetable, cultivated principally for a winter salad. Sow from May until August for a succession of crops; tie the leaves closely together to blanch them.

Green Curled. Standard sort for fall and winter. Pkt. 5c; oz. 15c; ¼ lb. 40c.

White Curled. A beautiful variety with curled, mossy leaves; for early use. Pkt. 5c; oz. 15c; ¼ lb. 40c.

EGG PLANT

Early Long Purple. The earliest and hardiest. Pkt. 5c; oz. 30c.

KALE

Dwarfed Green Curled. Leaves curled and a bright green. Pkt. 5c; oz. 10c.

Tall Scotch—Green Curled. Grows about two feet high; leaves dark green, curled and wrinkled. Very hardy. Pkt. 5c; oz. 10c; ¼ lb. 25c.

Thousand Headed. Grows very large. Use mostly for stock feeding. Pkt. 5c; lb. 50c; postpaid.

KOHL RABI

Early White. Best table variety. Pkt. 5c; oz. 15c.

LEEK

Large Rouen. The favorite variety. Pkt. 5c; oz. 15c.

MUSTARD

Southern Giant Curled. Pkt. 5c; oz. 10c; lb. 60c.

White English. Leaves mild and tender when young. Pkt. 5c; lb. 25c. If wanted by mail, add 10c per pound.

LETTUCE

Sow in the open ground as early as possible, barely covering the seed. If the hotbed is used, let it be started quite early. Give but little heat and plenty of water and air on fine days. Let plants in the bed be about four inches apart. As they increase in size thin them out, or they will become weak. One-half ounce will sow one hundred feet of drill.



May King. A grand new butter lettuce. A large growing, smooth leaved, richly flavored sort, which we believe to be the best of all smooth leaved lettuces. Plant is light green, with round leaves which form into a very solid, compact, round head; stands a long time without running to seed. Leaves are very thick, folded or puckered at base, inner ones blanch to a rich golden yellow. Exceedingly rich, tender and buttery. Fine for open ground or forcing. Pkt. 5c; oz. 10c; lb. \$1.00.

Simpson's Early Curled. A leading market variety. Very tender. Pkt. 5c; oz. 10c; lb. 85c.

Hanson. The leading head variety. Crisp, tender and well flavored. Pkt. 5c; oz. 10c; lb. \$1.00.

Early Prize Head. One of the very best kinds for the garden. A large loose head, tender and crisp. Pkt. 5c; oz. 10c; lb. 80c.

Grand Rapids. The best early kind for forcing. A favorite of gardeners. Pkt. 5c; oz. 10c; lb. \$1.00.

Big Boston. A popular market variety. A light green cabbage variety, slightly tinged with brown in the head. Has a particularly fine golden buttery head. Pkt. 5c; oz. 10c; lb. \$1.00.

Brown Dutch. Forms a large, solid head, sweet, tender, and of good flavor. Outer leaves tinged with brown. Very hardy. Pkt. 5c; oz. 10c; lb. \$1.00.

Iceberg. Has an unusually solid head. The white main ribs of the leaves curves toward the center, which keeps the interior thoroughly bleached. It is quick growing, and always crisp and tender, whether propagated in early spring or in the hot days of summer. Pkt. 5c; oz. 10; ¼ lb. 35c; lb. \$1; Postpaid.

MELONS

MUSKMELON OR CANTALOUPE

Plant in rich, wet land, using one ounce to 100 hills or two or three pounds to the acre.

Burrell's Gem. A medium sized, oval variety, deeply netted and having salmon or red flesh. Fine grain and fine flavored. Pkt. 5c; oz. 10c; lb. \$1.00.

Rocky Ford, or Netted Gem. The most largely cultivated variety in use. Fruit is slightly oval, finely netted and slightly ribbed. Flesh green, thick, very sweet and of fine flavor. Pkt. 5c; oz. 10c; lb. \$1.00.

Osage, or Miller's Cream. One of the finest flavored melons. The sweetest of all. Rich salmon color. Pkt. 5c; oz. 10c; lb. \$1.00.

Extra Early Hackensack. An early variety with almost globular fruit, which is heavily ribbed and netted; flesh thick and light green. Pkt. 5c; oz. 10c; lb. \$1.00.

Large Yellow Cantaloupe. The flesh is light yellowish green, very sweet, crisp and delicious. Pkt. 5c; oz. 10c; lb. \$1.00.

Small Green Nutmeg. The old favorite. Fine for home or market. Flesh thick and green. Pkt. 5c; oz. 10c; lb. \$1.00.

Cassaba, True Stock. This is an excellent melon and much sought after. Large, rather oblong, well ribbed, skin thin, netted, and of greenish yellow color. Flesh 2 to 3 inches thick, delicious and melting. Pkt. 5c; oz. 10c; lb. \$1.25.

WATERMELON

Keckley's Sweet, or Monte Cristo. A splendid sort for home use or near markets. Vine vigorous and productive; fruit of medium size, oval; color dark mottled green in two shades, forming indistinct stripes. Flesh a beautiful rich red, exceedingly sweet and tender. Pkt. 5c; oz. 10c; lb. 65c.

Cuban Queen. A very fine variety, growing to a great size; flesh bright red, solid and sweet; the skin is beautifully striped dark and light green; melons are wonderfully solid, rind thin. They are enormously productive and ripen early. Pkt. 5c; lb. 60c.

Ice Cream, or Peerless. A grand favorite and standard variety. Superior in every respect. Has beautiful crimson core, which is always fine grained; can not be surpassed in flavor; very prolific, magnificent grower. Oz. 5c. lb. 60c.

Sweetheart. This melon has become very popular as a shipping melon. Vine vigorous and productive, ripening its fruit early. Fruit large, oval, very heavy, uniformly mottled dark and very light green, rind thin but firm; flesh bright red, firm, solid but very tender, melting and sweet; fruit retains its good quality for a long time after ripening. Oz. 5c; lb. 60c.

Phinney's Early. Early, hardy; flesh pink, very sweet, tender and crisp. Lb. 50c.

Wonderful McIver, or Sugar Melon. The sweetest of all. This widely famous watermelon is, I believe, the sweetest ever put before the people of this country. It is of medium size, with striped or variegated exterior, beautiful red flesh, and light colored or white seeds. The flesh is entirely stringless, and of perfect quality as to texture. The vines are strong, thrifty and prolific and well adapted to stand either wet weather or drought. Pkt. 5c; oz. 10c; $\frac{1}{4}$ lb. 30c; lb. \$1.

Halbert Honey. A large, oblong variety of the best quality. Is especially sweet in flavor, crisp and brittle, and well ripened to a very thin rind. Pkt. 5c; oz. 10c; $\frac{1}{4}$ lb. 30c; lb. \$1.

Cole's Early. A great favorite for a large area of different climates. Fruit medium sized, oblong, striped and mottled. Flesh bright red, solid and of fine, sweet flavor. Oz. 5c; $\frac{1}{4}$ lb. 15c; lb. 50c.

Ferry's Iceberg. Flesh bright red, rind exceedingly hard and firm, making

it a good shipping variety. Skin very dark except where it rests on the ground, where it is a rich yellow. Tender and sweet, fine for market. Oz. 5c; $\frac{1}{4}$ lb. 15c; lb. 60c.

Kolb's Gem. The well-known shipping variety. The fruit is large, thick and oval, with flattened end; flesh bright red. Oz. 5c; lb. 50c.

Hungarian Honey. A very sweet variety and fine for home garden. Oz. 5c; lb. 60c.

CITRON

Red Seeded. Round and handsome; for preserving only. Oz. 10c; lb. 60c.

ONIONS



PURE SEEDS. Highest tests. We pride ourselves on selling the very best onion seed that can be produced. Try it.

Oregon Yellow Danvers. This is a variety planted almost entirely in the Northwest, particularly in Oregon. The bulbs are large, of a half globe shape, with small necks. The best keeper and brings the highest prices in both Oregon and California. Our seed is from the best growers in Oregon. Pkt. 5c; oz. 15c; lb. \$1.50.

Yellow Flat Danvers. A well-known variety that does fine here. Pkt. 5c; oz. 10c; lb. \$1.25.

Yellow Globe Danvers. A very handsome globe shaped variety of large size, with thin, yellowish skin, white flesh, fine grained, mild, very firm and a good keeper. Pkt. 5c; oz. 15c; lb. \$1.50.

White Portugal, or Silverskin. A good variety for table or market. Skin and flesh pure white; mild flavor and flat shape. The best white onion. Pkt. 5c; oz. 25c; $\frac{1}{4}$ lb. 65c; lb. \$2.25.

Prizetaker. The genuine. The handsomest and largest globe onion. A perfect globe shape, with a bright straw colored skin. The necks are small and the onions always ripen up hard. Pkt. 5c; oz. 15c; lb. \$1.50.

Australian Brown. The skin is thick and the color a dark brown; the longest keeping onion on the market. Pkt. 5c; oz. 10c; lb. \$1.25.

Large Red Weatherfield. A standard variety; one of the most productive kinds, even in poor soil. Pkt. 5c; oz. 15c; lb. \$1.50.

Southport White Globe. A pure white, globe-shaped variety. Forms handsome, hard onions with waxlike, pearl white flesh. Is used a great deal for green onions, owing to the clear white stem. Pkt. 5c; oz. 25c; $\frac{1}{4}$ lb. 70c; lb. \$2.50.

California Early Red. Very early. Very mild flavor and fine quality. Is much used for green onions. Pkt. 5c; oz. 15c; lb. \$1.25.

Extra Early Barletta. Is a white onion forming small onions about one inch in diameter. Fine for pickles. Pkt. 5c; oz. 20c.

ONION SETS

We make a specialty of onion sets, and have the largest trade in the city on same. On account of the market we do not quote prices, as the price is subject to changes. Write for prices or send in your order and we will fill it at market prices at time order is received.

OKRA OR GUMBO

Long green pods. Pkt. 5c; oz. 10c.

PARSLEY

Used for flavoring soups, meats, and garnishing. Pkt. 5c; oz. 10c.

PARSNIPS

Hollow Crown. Root white, very tender, with smooth, white skin. Pkt. 5c; oz. 10c; lb. 85c.

PUMPKIN

CULTURE—Care should be taken to keep the different varieties apart, and also to keep them well separated from other vining plants, as they readily amalgamate and deteriorate.



Winter Luxury. The best flavored pie pumpkin grown; enormously productive; excellent keeper; medium size; color, golden russet, finely netted; flesh, deep golden, sweet, tender and very thick; none better. Pkt. 5c; oz. 10c; $\frac{1}{4}$ lb. 25c; lb. 75c.

Large Yellow, or Connecticut Field. Large, round, deep glossy yellow. Vines vigorous and very productive; good keeper; grown extensively for stock feeding. Oz. 5c; $\frac{1}{4}$ lb. 15c; lb. 50c.

Mammoth Tours. A productive French variety; grows to an enormous size. Pkt. 5c; oz. 10c; lb. 90c.

Large Sweet Cheese. A popular variety; fruit flattened, skin mottled light green and yellow; flesh yellow, thick, tender, very nutritious and of excellent quality; a most productive variety. Pkt. 5c; oz. 10c; $\frac{1}{4}$ lb. 20c; lb. 60c.

Sweet, or Sugar. A handsome and productive small pumpkin, 10 to 12 inches in diameter, round, flattened; skin orange, flesh deep yellow, fine grained and very sweet. Pkt. 5c; oz. 10c; $\frac{1}{4}$ lb. 25c; lb. 75c.

PEPPER

Sow the seed early in hotbeds, or later when the weather becomes warm, in open beds. When two or three inches high transplant to a warm, mellow soil, in rows 18 inches apart and a foot apart in the rows. Guano and hen manure are excellent fertilizers and will greatly increase the yield. Pkt. 5c; oz. 20c; $\frac{1}{4}$ lb. 60c.

Ruby King. Very large, sweet and mild; bright scarlet.

Large Bell, or Bull Nose. Large, mild, thick-fleshed variety; one of the best for stuffed pickles.

Sweet Spanish, or Mountain. Of the largest size, bright scarlet; excellent for pickling or stuffing.

Chinese Giant. A very large, deep red variety, very thick and blunt; it is fully twice as large as Large Bell, or Bull Nose, being four or five inches thick at the top and about 6 inches long.

GARDEN PEAS

If wanted by mail, add 10c per lb. for postage.

Garden Peas are the highest in several years on account of the shortage both in United States and Europe. Our prices are subject to market changes, altho we believe that we have a large enough stock to maintain the catalogue prices during the season. Some varieties are very short, and we would advise you to buy your requirements now.

EARLY VARIETIES

Alaska. A smooth, blue pea of even growth of the vine and extra early. Can be planted very early. Lb. 20c; 10 lbs. \$1.40.

Premium Gem. One of the finest of the early varieties of wrinkled peas. Extra early and dwarf. Lb. 20c; 10 lbs. \$1.60.

American Wonder. The earliest of the sweet wrinkled sorts; tender and very sweet. A great favorite for family use. Lb. 20c; 10 lbs. \$1.70.

Nott's Excelsior. A fine early dwarf pea; pods are always filled with sweet, tender peas. Lb. 20c; 10 lbs. \$1.70.

First and Best. A very small vined pea that is exceedingly early. Grows about 10 inches high. Lb. 20c.

Edward VII. A delicious new early pea of great merit. The pods are well filled and as large as most late peas. Height 15 inches. Try this grand new pea and we are sure you will be more than well pleased. Lb. 20c; 10 lbs. \$1.70.

Magnificent. A robust grower, producing a profusion of large, handsome, deep green pods, well filled with luscious, tender, sweet peas. A grand medium early variety for the home garden or for market. Height, two feet. Lb. 20c; 10 lbs. \$1.70.

MAIN CROP VARIETIES

Improved Stratagem. One of the best of the large podded peas. The pods are of

immense size, filled with wrinkled peas of the finest quality. Lb. 20c; 10 lbs. \$1.70.

Dwarf Telephone. The same as the well-known tall Telephone Peas, without its long vines; pods well filled with large sweet, tender peas. Height, 20 inches. Lb. 20c; 10 lbs. \$1.80.

Yorkshire Hero. One of the largest sweet wrinkled varieties. Pods of a good size and well filled. Medium late; bears a long time. Height, 30 inches. Lb. 20c; 10 lbs. \$1.50.

Bliss Everbearing. A stout-branching variety, that remains in bearing a long time. Fine for home garden. Peas large, tender and of fine flavor. Lb. 20c; 10 lbs. \$1.65.



Telephone. Pole variety. Pods are well filled with the finest peas that you ever tasted. Lb. 20c; 10 lbs. \$1.85.

White Marrowfat. A pole variety with smooth white peas. Grows to a good height and is a heavy producer. Lb. 15c.

Melting Sugar. The kind that have those sweet, broad pods; are used the same as string beans; a pole variety. Lb. 20c.

Dwarf Edible-Podded Sugar. The same as the above, but a dwarf pea. Lb. 20c.

RADISH



Iceicle. A handsome white variety, about five inches long, with sloping top and pointed root; quick growing, brittle and mild in flavor. Pkt. 5c; oz. 10c; $\frac{1}{4}$ lb. 25c; lb. 60c.

Crimson Giant. A new variety which will be a popular market and home variety, since it matures very early and remains firm and crisp much longer than other short varieties; color rose carmine with white tip; it is top shaped. Pkt. 5c; oz. 10c; $\frac{1}{4}$ lb. 25c; lb. 75c.

Scarlet Turnip, White Tipped, or Rosy Gem. One of the most popular and attractive short varieties; it is globe shaped, bright rose carmine, with bottom and tip clear white; stems and leaves small; very valuable for forcing as well as for the house garden and market. Pkt. 5c; oz. 10c; $\frac{1}{4}$ lb. 25c; lb. 60c.

Early Scarlet Globe. A popular forcing variety owing to its quick growth and fine scarlet color; shape a trifle oblong. Pkt. 5c; oz. 10c; $\frac{1}{4}$ lb. 25c; lb. 60c.

Early Snowball. A very quick growing, small turnip shaped variety; color clear white, very mild flavor, and valuable for forcing. Pkt. 5c; oz. 10c; $\frac{1}{4}$ lb. 25c; lb. 65c.

French Breakfast. A popular variety for market or forcing; it is about two inches long and decidedly stump rooted; color bright rose, with bottom of root and the tail pure white. Pkt. 5c; oz. 10c; $\frac{1}{4}$ lb. 25c; lb. 60c.

White Strasburg. A large white variety for late summer use; rather thick at the shoulder and tapering to about five inches in length; keeps firm and solid a long time. Pkt. 5c; oz. 10c; $\frac{1}{4}$ lb. 25c; lb. 60c.

White Vienna, or Lady Finger. A very fine, long, white variety, quick growing, and ready for use when very young; the flavor is mild and sweet. Pkt. 5c; oz. 10c; $\frac{1}{4}$ lb. 25c; lb. 60c.

Half Long. The variety most largely used by gardeners in California; it is about three inches long with half stump root and sloping top; color carmine; quick growing and hardy. Pkt. 5c; oz. 10c; $\frac{1}{4}$ lb. 20c; lb. 60c.

Long Scarlet Short Top. The best known and most popular long variety; color bright carmine, and flesh brittle and firm, about six inches long, the top growing out of the ground about one inch. Pkt. 5c; oz. 10c; $\frac{1}{4}$ lb. 20c; lb. 60c.

Brightest Long Scarlet. A very showy long variety; it is thick at the shoulder and tapering; bright rose scarlet with distinct white top. Pkt. 5c; oz. 10c; $\frac{1}{4}$ lb. 20c; lb. 60c.

Chartier. A very long variety, and larger in diameter and general size than Long Scarlet; keeps hard and crisp longer than most varieties, and is an excellent garden sort; color bright rose with lighter colored tips. Pkt. 5c; oz. 10c; $\frac{1}{4}$ lb. 25c; lb. 60c.

WINTER RADISHES

China Rose Winter. Bright rose color; flesh white, firm and of superior quality. Pkt. 5c; oz. 10c; lb. 60c.

Mammoth White China. Roots from 10 to 12 inches long, and are solid, tender and crisp. Pkt. 5c; oz. 10c; lb. 60c.

Long Black Spanish. Flesh white; one of the latest and hardiest. Pkt. 5c; oz. 10c; lb. 60c.

RHUBARB, OR PIEPLANT

Victoria, or Mammoth. Very large, finest cooking variety. Pkt. 5c; oz. 15c; $\frac{1}{4}$ lb. 45c; lb. \$1.50.

Crimson Winter. The new variety, which has become very popular and profitable to the growers, is of delicious flavor, extremely hardy, very prolific and quick growing. Produces good stems all winter and spring. Pkt. 5c; oz. 50c.

SALSIFY, OR VEGETABLE OYSTER

Mammoth Sandwich Island. The leading tender variety. Produces a large crop of straight, smooth roots. Pkt. 5c; oz. 10c; lb. \$1.50.

SUNFLOWER

Mammoth Russian. The favorite kind. Lb. 10c; postpaid 20c.

SQUASH



Mammoth Summer Crookneck. Flesh tender and of good quality. Pkt. 5c; oz. 10c; lb. 70c.

Mammoth White Bush Scallop. The best summer sort for the market. Pkt. 5c; oz. 10c; lb. 70c.

Hubbard. The best seller and most popular squash; keeps through the winter. Oz. 10c; lb. \$1.00.

Mammoth Chili. The largest of all squashes; rich, fine-flavored flesh. Oz. 10c; lb. \$1.00.

Golden Hubbard. The same in size, shape and quality as the well-known Hubbard squash, except that it is a bright red and golden color and somewhat earlier; it is also a long keeper, vigorous and wonderfully productive; in flavor it has no equal. Pkt. 5c; oz. 10c; $\frac{1}{4}$ lb. 25c; lb. 90c.

Sibley, or Pikes Peak. Shell smooth, thin and of a pale green color. Oz. 10c; lb. 80c.

New Delicious. This new fall and winter squash resembles the old Hubbard, having a dark, olive green, hard shell; average weight is between five and ten pounds; seed cavity small, flesh exceedingly thick, compact, fine grained; color golden orange. The flesh is meaty, granulated, tender and almost of mealy dryness, cooking sweet and rich, whether steamed, baked, boiled or made into pies. Oz. 10c; lb. \$1.00.

SPINACH

An easily grown plant, the seed of which may be planted in the fall to secure good spinach early in the spring. The soil should be rich.

Bloomsdale Savoy. A favorite market variety. Leaves large, round and thick. One of the earliest sorts. Pkt. 5c; oz. 10c; lb. 50c.

Long Standing. A deep, green variety that stands a long time without going to seed. Pkt. 5c; oz. 10c; lb. 50c.

Thick Leaved. Large-leaved green variety. Leaves rather smooth and rounded at top. A good variety for late summer and spring. Pkt. 5c; oz. 10c; lb. 50c.

Victoria. A long-standing variety with round leaves. Deep green and hardy, and remains ready for use for a long time. Pkt. 5c; oz. 10c; lb. 50c.

TOBACCO

Connecticut Seed Leaf. Best adapted for general use. Does well here. Pkt. 5c; oz. 20c.

TOMATOES



Atlantic Prize. The earliest large variety; perhaps the best variety for the valley. Pkt. 5c; oz. 20c; $\frac{1}{4}$ lb. 70c.

Early Michigan. A smooth and very early tomato. Pkt. 5c; oz. 20c.

Perfection. One of the best; medium early, round and smooth. Pkt. 5c; oz. 20c.

Earliana. The earliest, large and smooth tomato; the most perfect of all tomatoes; of large, uniform size and beautiful red color. Pkt. 10c; oz. 25c; $\frac{1}{4}$ lb. 70c.

New Stone. The greatest canning tomato in the world; this variety has obtained great popularity with the canners, growers and market gardeners, everywhere. Pkt. 5c; oz. 20c; $\frac{1}{4}$ lb. 70c.

Chalk's Early Jewel. A wonderful new variety, in that it is early and bears continuously throughout the season; the fruit is large, smooth, uniform and well ripened clear to the stem, and flavor and quality are especially fine. Color is a bright scarlet. Pkt. 10c; oz. 25c; $\frac{1}{4}$ lb. 75c.

Dwarf Champion. A dwarf variety, sometimes called the tree tomato on account of its upright growth and its ability to stand alone without trellising; fruit medium sized, smooth, uniform, and of a purplish carmine color. Pkt. 5c; oz. 25c; $\frac{1}{4}$ lb. 75c.

Husk Tomato, or Ground Cherry. Used mostly for preserves. Pkt. 5c; oz. 30c.

BIRD SEED

Sunflower. Per lb. 10c.

Canary. Per lb. 10c.

Hemp. Per lb. 10c.

Millet. Per lb. 10c.

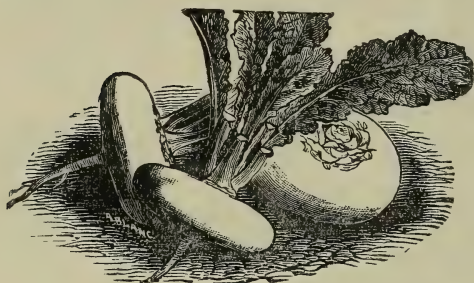
Rape. Per lb. 10c.

Cuttlebone. Per lb. 75c.

If wanted by mail, add 10c per lb.

TURNIPS

For early use sow the small sorts as soon as the ground can be worked in the spring. For fall and winter use, sow during July, August and September.



EARLY GARDEN TURNIPS

White Egg. Is clear white, excellent flavor, sweet and mild. Favorite for table use. Pkt. 5c; oz. 10c; lb. 60c.

Early White Flat Dutch. Flesh white, firm, tender and sweet. Pkt. 5c; oz. 10c; lb. 50c.

Early Purple Top, Strap Leaved. The leading white-fleshed variety, and one of the best for all purposes. Keeps good. Pkt. 5c; oz. 10c; lb. 50c.

Early White Milan. Pure white, sweet and tender. A leading market variety. Pkt. 5c; oz. 10c; lb. 75c.

Orange Jelly, or Golden Ball. One of the most delicate and sweet flavored yellow fleshed varieties introduced. Fine as a table variety. Pkt. 5c; oz. 10c; lb. 60c.

MAIN CROP TURNIPS

Purple Top White Globe. The favorite large variety, both as field and table variety. Handsome and of excellent quality. Pkt. 5c; oz. 10c; lb. 50c.

Pomerian White Globe. A very productive kind. Grows large and makes excellent feed for stock. Pkt. 5c; oz. 10c; lb. 60c.

Yellow Aberdeen. Round, medium size; light yellow. A great favorite with the dairymen. Pkt. 5c; oz. 10c; lb. 50c.

Cow Horn. Grows half out of the ground and is a rapid grower. Immense yielder. Delicate and well flavored. Pkt. 5c; oz. 10c; lb. 60c.

RUTA BAGAS

If wanted by mail, add 10c per lb. for postage.

Monarch, or Tankard. Flesh yellow, fine grained, and a heavy yielder. Oz. 5c; lb. 50c.

American Purple Top. A favorite variety; grows to a large size and produces immense crops. Oz. 5c; lb. 50c.

Sweet Russian. Most excellent for table and stock, sweet and rich. Pkt. 5c; oz. 10c; lb. 60c.

VEGETABLE PLANTS

Cabbage. Early and late varieties in season. Doz. 10c; 100, 50c.

Cauliflower. Early and late varieties in proper seasons. Doz. 15c; per 100, \$1.00.

Celery. All the principal varieties. Doz. 10c; 100, 50c.

Tomatoes. All the choice early and late varieties at the various seasons. Doz. 15c; 100, \$1.00.

Pepper Plants. Choice varieties. Doz. 25c.

Asparagus Roots. Good strong plants. Doz. 15c; 100, \$1.00.

We do not mail plants as we find that they will not arrive in good condition but send them by express, charges collect.

SEED POTATOES

On account of the market changes, we do not quote prices but will do so at any time on your request. We mention a few of the different varieties that we usually have in stock. When ready to buy, send for list and prices.

Early Ohio. The old standard variety that is hard to beat. A heavy producer of fine potatoes.

Early Rose. One of the best known early varieties grown here and does well on all kinds of land.

American Wonder. This is the new Early White Potato that is taking the market the last few years. A heavy yielder of choice potatoes.

Early Sunrise. One of the extra early pink potatoes that gives universal satisfaction. Finely flavored and cooks mealy.

Burbanks. The old standby for the late market. One of the best potatoes ever grown anywhere. Brings the highest prices in the markets of the west and is a great cropper.

GRASS AND CLOVER SEEDS

We make a specialty of handling the very best grass and clover seeds that can be obtained. We have a large power cleaner and clean all our seeds before offering it on the market. The days of sowing any old seeds are past, as the up-to-date farmer knows that it pays to seed only with the best on the market. You will find our prices are as low as seeds of like quality can be sold for. We do not pretend that our prices are as low as some seeds might be sold for; the quality of the seeds we handle is so much better than some dealers handle that there is no comparison and they usually want as much for seeds of inferior quality as we ask for seeds of the HIGHEST QUALITY, the only kind that we handle.

Our prices are today's market price, and are subject to market changes. All orders will be filled at the market price of the day the order is received, and full value will be sent for the amount of money you may remit.

Or when you are ready to buy, send for our price and state quantity wanted and we will make you special prices if possible.

For amount of seed per acre, see inside back cover.

If wanted by mail, add 10c per lb. for postage.

Alfalfa. This is getting to be a great crop in the valley. It is one of the most profitable crops grown. Our seed is the finest lot we ever saw. We had it tested and it tested 100 per cent pure seed. Lb. 25c; 100 lbs. \$22.00.

Dry Land Alfalfa. Our seed is the genuine dry land alfalfa grown without irrigation and is pure seed. Lb. 25c; 100 lbs. \$22.00.

Oregon Red Clover—Medium. Our red clover seed is selected from many different lots, we keeping only the best for our retail trade. As the best clover seed grown in the world is grown in this valley we can offer you the finest seed that can be obtained anywhere. On account of our location we can buy the seed direct from the grower, and it enables us to sell our seed at a far

less price than other dealers. Lb. 25c; 100 lbs. extra fancy, \$22.00; fancy, 100 lbs. \$20.00.

Mammoth Red Clover. This is used mostly for plowing under and cutting as green feed, as it grows rather coarse for hay. Lb. 25c; 100 lbs. \$24.00.

Alsike Clover. This is used a great deal on land that is wet or on so-called white land, and is a very profitable crop to raise. Makes a fine hay crop. Lb. 25c; 100 lbs. \$20.00.

White Clover. This is a great pasture and after getting started, spreads all over your pasture. Also used extensively for lawns. Fancy, lb. 45c; 10 lb. lots, \$4.25.

Orchard Grass. This is the best pasture grass for this valley we know of. Stands heavy pasturing, makes an abundance of feed, and makes fair hay. Fancy, 100 lbs. \$20.00.

English Rye Grass. Imported seed. This is one of the best pasture grasses grown here. Very hardy, starts with the first rains in the fall and lasts all winter and until late in the summer. Lb. 10c; 100 lbs. \$8.50.

Italian Rye Grass. This is similar to the above, but is used more on lands inclined to be wet and marshy. Lb. 10c; 100 lbs. \$9.00.

Mesquite, or Velvet Grass. This is one of the most hardy grasses grown here and makes an abundance of pasture both early and late in the season. Also used for hay quite extensively. Fancy hulled seed. Lb. 20c; 100 lbs. \$18.00.

Timothy. This is the most valuable of all grasses for hay and makes fine pasture. Sow early in the fall or spring. Lb. 25c; 100 lbs. \$20.00.

Kentucky Blue Grass. Makes a fine pasture, and is also used for lawns; makes a very fine grass for lawn purposes. Lb. 40c; 10 lbs. \$3.75.

Creeping Bent Grass. Makes one of the finest lawn grasses that can be obtained. The lawn will have a fine velvety appearance if seeded with this grass. Lb. 40c; 10 lbs. \$3.75.

Red Top. Sown extensively for pastures and also used some for lawns. Very desirable for hay for wet lands and considered next to timothy for a grass hay. Lb. 25c; 100 lbs. \$20.00.

FANCY LAWN GRASS SEED

More fine lawns in the city have been made from our mixture than any other. We use only the choicest, re-cleaned, heavy grass seeds. This mixture of ours will produce a fine velvety thick lawn in a few weeks time, if the ground is properly prepared and the seed sown properly. Do not buy cheap seed; it means only a poor lawn. Sow our seed at the rate of one pound to 400 square feet of space. Lb. 40c; 10 lbs. \$3.85.

FARM AND FIELD SEEDS

We want to call your attention to our stock of Farm and Field Seeds. We are making a special effort to please those who want GOOD SEEDS and PURE SEEDS. We have at a large outlay installed a large power cleaner, equipped with all the latest cleaning devices, to handle this trade right. We clean all our seeds and seed grain thoroughly before offering on the market. Buy our re-cleaned seed grain and seeds, and sow nothing but clean seed; you have enough foul seeds now without sowing any more.

Seed Wheat. Our stock varies at the different seasons so that we would advise you to write or call for prices when you are ready to buy. In that way we can quote you on what we have in stock and send samples if desired.

Seed Oats—White Spring. We have in stock several varieties of well-known Seed Oats, including some new varieties that it would pay you to try.

Fall and Winter Oats—Grey. Usually have in stock some choice grey Oats for seed purposes. When in the market for Seed Oats of any kind, write for prices and samples.

Seed Barley. The market on Barley for seed will be very high this coming season, as all varieties of barley are scarce at present time. Prices on application.

Seed Vetch. We handle several cars of Vetch Seed each season and have some very choice seed in stock at present. This is one of the most profitable crops grown for hay and pasture, and it pays any farmer to raise it. Also used for fertilizer by plowing under. 100 lbs. \$3.00.

Field Peas. Very short crop and prices will be high and peas scarce. Cannot quote prices, but will do so on request.

Cheet Seed. During the seeding season we carry a large stock at market prices.

Buckwheat (Japanese). The best and most profitable variety. Is earlier than the other varieties. Is excellent for bee pasture. Lb. 5c; 100 lbs. \$4.50.

Buckwheat (Silverhull). A very good and popular variety. Grain is of a light color, rounder than the common variety, thinner husk, earlier, and yields more. Lb. 5c; 100 lbs. \$4.50.

Flax Seed. Recleaned for planting. Flax should be grown more as it is a profitable crop at the prices that it has been selling for the last few years. Lb. 15c; 100 lbs. market price.

Seed Rye. Rye is one of the most profitable crops in the grain line. It is a sure cropper and produces a good crop every season. Fine for pasture. Recleaned seed, \$2.15 per 100 lbs. Not recleaned, but good seed, \$2.00 per 100 lbs.

Dwarf Essex Rape. This great forage crop is becoming more popular every year. Yields an immense amount of green feed. Lb. 10c; 100 lbs. \$9.00.

Thousand Headed Kale. One of the most valuable forage crops for this valley ever introduced. It produces a mass of thick, curly green leaves, rich and succulent, which are eagerly eaten by sheep, cattle, horses, poultry and hogs. Especially recommended for green feed during the dry summer and also during the cold weather of winter, as it is good at all times. Makes the most rapid growth if sown early in the spring, but can be sown in summer and fall for winter feed. Pkt. 5c; oz. 10c; lb. 50c by mail postpaid.

BROADCAST SEEDERS

Wheelbarrow Seeder. This is without any doubt, the most reliable seeder and most convenient seeder made. Mounted like a wheelbarrow and sows very accurate. Price, each, \$8.75.

Cahoun Seeder. The most popular and convenient hand machine on the market. Sows very accurate. Good for grain or grass seeds. Price, each, \$3.50.

Little Giant. The handiest small seeder on the market. Very convenient. Price, each, \$2.00.

PLANT SETTER

Master's. For planting cabbage, kale, celery, etc. With this little planter you can plant, water and fertilize ten thousand plants a day. Price, each, \$4.00.

BARRELS AND KEGS

We carry a complete stock, suitable for meat, fish, cider, vinegar, kraut, etc.

5 gallon keg.....\$.65	15 gallon keg.....\$1.25	30 gallon barrel...\$1.60
10 gallon keg..... 1.00	20 gallon keg..... 1.40	50 gallon barrel... 2.35

TRAPS

Reddick Mole Traps. The best trap for catching moles on the market. Each, 75c.

GOPHER GUNS

We have a safe and improved gun. Simple and easy to handle. Each, \$1.75.

CORN PLANTERS

Crescent. A two-handled planter; strong and durable. Price, \$1.00.

Rotary. Very accurate in planting. Price, \$1.50.

SQUIRREL POISON

We handle a reliable brand of squirrel poison that does the work. Can, 25c.

SWEET PEAS

We believe that we have the finest selection of sweet peas ever offered, and are offering a grand selection of the famous Spencer varieties, the best and most popular variety. Any variety, pkt. 10c; oz. 25c; $\frac{1}{4}$ lb. 75c.

SPENCER VARIETIES

Countess of Spencer. Giant flowered with finest waved standard wings. Clear pink.

Helen Lewis. Very large orange-rose with especially bright orange standard

White Spencer. The finest selected White Spencer. Very fine.

Burpee's Primrose Spencer. A beautiful primrose Spencer, or cream colored.

Florence Spencer. Petals large and very wavy. White and blush with pink edge.

Apple Blossom Spencer. Very large, bright rose, wings primrose with rose tint.

King Edward Spencer. The best pure red Spencer; immense wings.

Asta Ohn. The best lavender Spencer; soft lavender; very large and wavy.

Othello Spencer. Deep, rich maroon; large drooping wings and wavy.

Dainty Spencer. Large, white with rosy-pink edges.

Superb Spencer Mixture. All waved or Spencer varieties. This mixture is made from a fine selection of the choicest Spencers and the colors are well balanced, finely proportioned colors. Pkt. 10c; oz. 25c; $\frac{1}{4}$ lb. 75c.

LARGE FLOWERING

A fancy selection of named varieties of the best known sweet peas and new novelties for 1912. The following list are all 5c a pkg, 15c $\frac{1}{4}$ lb., 50c lb.

Dorothy Eckford. A grand new white variety with large sized petals.

Emily Henderson. A pure white variety that is a great favorite.

Hon. Mrs. E. Kenyon. A light yellow or cream color that is very pretty.

Stella Morse. A beautiful primrose or light pink shade.

- Katherine Tracy.** A beautiful light pink with large petals.
Primma Donna. A deep pink that is an old favorite.
King Edward. One of the very best pure red shades.
Aurora. White, with stripes and flakes of orange-pink.
Blanche Ferry. A pink and white variety, shaded colors.
Admiration. A dark lavender or mauve shade, shading on purple.
Captivation. A beautiful mauve color.
Countess of Radnor. A beautiful lavender; large petals.
Lady Griesel Hamilton. A soft lavender, tinted with mauve in standard.
Maid of Honor. Clear white ground with blue edges.
Navy Blue. A true navy blue color with large petals.
Othello. A deep maroon, nearly black.
America. Bright red on silvery white ground. Showy.
Apple Blossow. Crimson pink, shaded lighter. Wings white, tinged pink.

LARGE FLOWERING MIXED

This is the best possible mixture that can be made from the grandiflora or Eckford varieties. The colors are well selected and well balanced to make the finest showing at time of blooming. Contains a great many new varieties. Pkt. 5c; $\frac{1}{4}$ lb. 15c; 1 lb. 50c.

FLOWER SEEDS

Nasturtium. Tall,ameleon; different colored flowers on same plant. Pkt. 5c; oz. 10c; $\frac{1}{4}$ lb. 30c; 1 lb. \$1.00.

Nasturtium. Spit fire. Fiery scarlet; very fine. Pkt. 5c; oz. 10c.

Nasturtium. Fancy tall mixed. A fine selection of the different climbing varieties in all colors. Pkt. 5c; oz. 10c; $\frac{1}{4}$ lb. 25c; 1 lb. 70c.

Nasturtium. Tom Thumb, or Dwarf. A fine selection of the dwarf varieties. Pkt. 5c; oz. 10c; $\frac{1}{4}$ lb. 25c

On account of limited space in this catalogue we list only a few of the main flower seeds, but we have a large stock of very choice, selected seeds, and will be glad to fill your order at any time, whether we catalogue the particular variety that you may want or not.

FLOWER POTS, FERN AND BULB PANS, SAUCERS

Hanging Baskets. These are well made, having scalloped edge and fancy designs on the lower outside. Better than wire baskets, as plants do not dry out so quickly. 8 inch, each 30c; 10 inch, each 40c; 12 inch, each 60c.

Flower, or Azalia Pots or Bulb Pans (all same price).

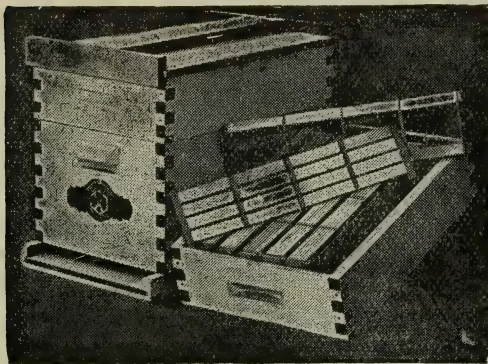
			Saucers					Saucers	
Size	Each	Doz.	Each		Size	Each	Doz.	Each	
2 inch....	\$0.02	\$0.20	...		8 inch....	\$0.15	\$1.75	\$0.10	
3 inch....	0.03	0.25	...		9 inch....	0.25	2.50	0.15	
4 inch....	0.04	0.40	0.02½		10 inch....	0.40	...	0.20	
5 inch....	0.06	0.60	0.04		12 inch....	0.60	...	0.35	
6 inch....	0.10	0.90	0.05		14 inch....	1.40	...	1.00	
7 inch....	0.12	1.20	0.07½		16 inch....	2.25	...	1.25	

Note—At above prices we will pack the pots carefully, but buyer must pay freight or express.

BEE SUPPLIES

Description and prices. Order by numbers. Five hives same rate as ten.

Dovetailed Pine Hives. No. 1. Dovetailed hive, complete with one super. Consists of one bottom board, one body, one super, one cover, eight Hoffman Brood Frames, one division board, six section holders, 24 sections and foundations started for frames, and sections and nails. Nailed, \$2.00 each; per 10, K. D., flat, \$18.00.



No. 2. Hive is the same as No. 1, less sections and foundation starters. Nailed, \$1.80 each; per 10, K. D., flat, \$16.00.

Western Cedar Hives. No. 1. Same description as pine hives. Nailed, \$2.00 each; per 10, K. D., flat, \$18.50.

No. 2. Hive is the same as No. 1, less sections and foundation starters. Nailed, \$1.80 each; per 10, K. D., flat, \$17.00.

Dovetailed Supers. No. 1. Pine or cedar complete, with sections, foundations starters. Nailed, each 90c; per 10, K. D., flat, \$8.00.

No. 2. Pine or cedar, less sections and starters. Nailed, each 70c; per 10, K. D., flat, \$6.00.

No. 0. Empty, pine or cedar. Nailed, 40c; per 10, K. D., flat, \$3.50.

SECTION HONEY BOXES

Our No. 1 Sections are made of the choicest white basswood lumber, and are perfect in finish, and free from defects. They are not all snow white, but vary from that to a light cream color. Choice honey shows off to best advantage in a section not too white, as it is the honey rather than the wood that the consumer looks at. Price, per 100, 70c; 500, \$3; 1000, \$5.90.

Our No. 2 Sections, selected from our best grade, sell at a price considerably less than our No. 1, and are correspondingly lower in quality. Most of them are equal to No. 1, except in color; some have dark spots, saw marks, or other blemishes which exclude them from No. 1 grade. Price, per 100, 65c; 500, \$2.85; 1000, \$5.50.

SECTION HOLDERS

Six section holders, with separators, one follower and wedge, are put in each super, and each holder holds four one-pound honey boxes. The bottom strip is $1\frac{1}{4}$ inches thick, and is cut out to fit insets of sections, $1\frac{1}{8} \times 18\frac{1}{8}$ inches, slotted, per 100, \$2.40. Bottoms only, $1\frac{1}{8}$ inches wide, slotted, per 100, \$1.25.

COMB FOUNDATION

Packed in 1, 2, 3 and 5-pound paper boxes, of 25 pounds in a case.

Light standard brood grade, 6 to 7 square feet per lb., price per lb. 65c
Light section grade, 11 to 12 square feet per lb., price per lb. 75c

If foundation is wanted by mail, add 16c per lb. up to two lbs., and 20c per lb. over 2 lbs.

HOFFMAN BROOD FRAMES

The Hoffman Improved Foundation Fastening Frames are the latest and best brood frames out. The top bar is made with a beveled strip which holds the foundation absolutely in place, perfectly straight and exactly in center

of top bar. Anyone can put foundation in these new frames very rapidly. Price, Hoffman Frames, per 10, 35c; per 100, \$3.00.

HIVE PARTS

Division Boards	Each, 10c; 10, 90c
Followers and Wedge	Each, 5c; 10, 35c
Tightening Springs	Each, 1c; 10, 8c

SEPARATORS

One separator should always be placed between each section holder so that the bees will build the honey comb even in each section. Slotted wood separators, 4½x18, per 100, 75c.

BEE VEILS

Hat Veils. These veils have a rubber band around the top so as to fit the hat snugly. The lower end is bound, to prevent fraying. The kinds of material are given below. Price list (postpaid):

No. 2 Veil, cotton tulle, with silk tulle face	\$0.55
No. 3 Veil, cotton tulle throughout40
Globe Veils; each	1.00

GLOVES, RUBBER

Rubber Gloves for the protection of the hands and wrists are almost indispensable in handling bees.

Ladies', sizes 7, 8 and 9	Price, \$1.20; by mail, \$1.30
Gents', sizes 10, 11 and 12	Price, \$1.25; by mail, \$1.35
Men's half long, sizes 13, 14 and 15	Price, \$1.50; by mail, \$1.60
Men's half long, heavy, sizes 13, 14, 15	Price, \$1.75; by mail, \$1.85

Note—To insure getting proper size, mark outline of hand on paper. If you order by number, order two sizes larger than you require in kid.

BEE ENTRANCE GUARDS

Root's, or Tinker's. These are to admit workers and exclude drones. After the drones are all out, fix the guards over the entrance, and at night the drones can be destroyed. Price, 10c; by mail, 15c.

TINNED WIRE

No. 30. Per spool, 10c, postpaid.

BEE SMOKERS

Clark's Cold Blast. Probably the most popular smoker in use today is the Cold Blast, although many are now changing to the hot blast, claiming that they are more effective. The Clark is the best low-priced smoker. Price, 60c; by mail, 75c.

Improved Corneil. It is neat in appearance and does not topple over easy. Makes a good strong blast, with little work. Very substantial. Price, standard size, 3¼ inch, \$1.00; by mail, \$1.25.

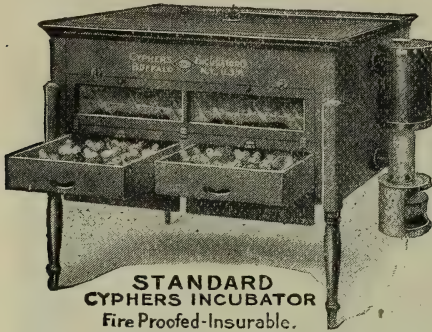
A B C Bee Culture. For the veteran as well as the beginner. While the book is in a true sense an A B C of Bee Culture, in that it is adapted to the requirements of the beginners, no veteran, no matter how extensive his experience, can afford to be without a work of this kind, containing as it does, a carefully prepared treatise on every late method of practice known to the business. 500 pages, \$1.35; postpaid, \$1.60.

OTHER BEE SUPPLIES

We handle a great many supplies not listed here, but will be glad to quote you prices at any time. Send us a list of what you want.

POULTRY SUPPLIES

We carry a complete line of modern poultry supplies, foods and remedies. With years of experience, we have selected only the best of the different lines on the market, and can offer you the best selected stock in the city.



Standard Cyphers Incubator

Made in four sizes.

No. 0, 70 hen eggs, 56 duck eggs..	\$16
No. 1, 144 hen eggs, 112 duck eggs.	\$23
No. 2, 244 hen eggs, 200 duck eggs.	\$33
No. 3, 390 hen eggs, 300 duck eggs.	\$39

The above prices are f. o. b. Salem, Oregon.

The Cyphers Incubators and Brooders are acknowledged by all poultry experts to be the best made.

They have been on the market for years, and always give satisfaction. The best system of regulation, both of heat and ventilation. The guarantee is the best and most comprehensive put out by any company, and we stand back of it as well as the company. If you are thinking of getting an incubator, send for the large catalogue, it explains in detail the construction, operation, etc., in full, and also contains other valuable information.*

Adaptable Hover. Price	\$10.00
Style A, Outdoor. Price	\$14.00
Style B, Outdoor. Price	\$18.00

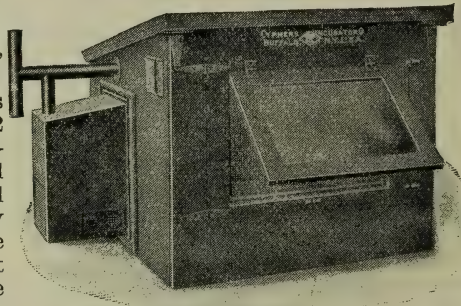
Style C, Outdoor. Price	\$20.00
Style D, Indoor. Price	\$13.00

The above prices are f. o. b. Salem, Oregon.

Cyphers Incubator Company offers its customers for the season of 1912 a line of individual brooding apparatus that is as well constructed and as well adapted for the uses intended as are its Standard Incubators. They not only are fire-proof and insurable but are the best designed, the most durable, the most convenient, and the most efficient indoor and outdoor individual brooding devices thus far invented and placed on the market.

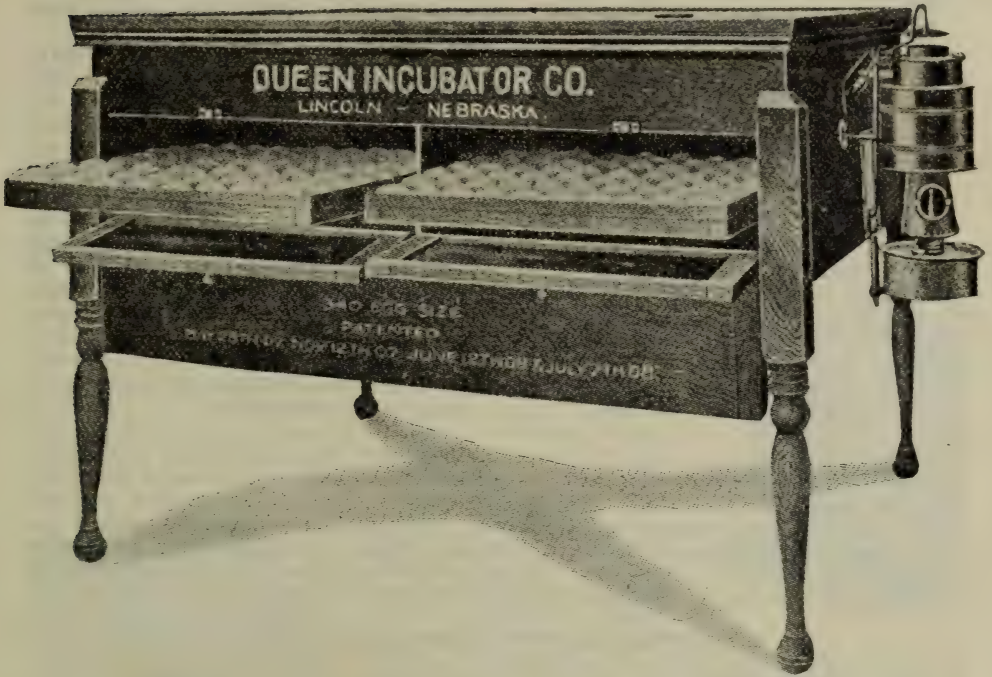
Insurable brooders, both outdoor and indoor, any one of which could be used anywhere, at any time, without objection on the part of the fire insurance companies and without danger to the property of the policy holding operator is what Cyphers Incubator Company offers its customers by the invention of the Fire-Proofed Brooder Heater and Standard Adaptable Hover, which is used in every Cyphers Company 1911 Brooder, and which bears the Fire Underwriters "Inspected Brooder" label.

All Cyphers Company Brooders, 1912 pattern, are built so that they can be shipped knock-down, compactly crated, thus insuring much lower freight rates to all points. With every brooder we furnish an illustrated circular of directions for setting it up.



Cyphers Style A Outdoor Brooder.

QUEEN INCUBATORS



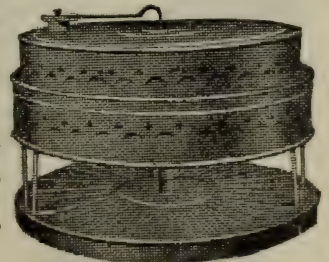
If you are looking for an incubator that will do the work, that is sold under a guarantee to be exactly as represented, and is sold for a moderate price, then buy the Queen Incubator. The Queen is the best value for the money that we have ever seen. It is well made, of durable material, and will last a long time. If you are interested, send for the large catalogue. It's free. The prices are as follows, f. o. b. Salem, Oregon, or we will quote you a special delivered price on receipt of your request: 130 egg size, \$14.00; 180 egg size, \$18.00; 240 egg size, \$22.00.

If interested in brooders, send for the large catalogue, as on account of limited space, we do not list here.

CYCLE INCUBATORS

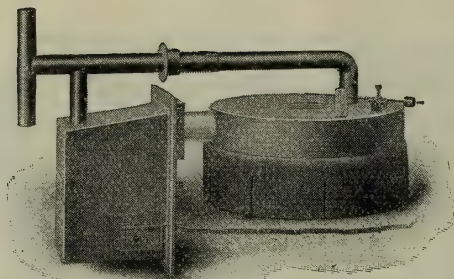
This is the famous Philo System of Incubation, that has made such a reputation in the East the past two seasons.

It is a small metal hatcher holding 50 eggs. It uses about one gallon of oil to a hatch, and will run two weeks on one filling of the tank. Easy to operate and easy to regulate and seems to be very satisfactory to all that have used them. Price, Hatcher only, complete, \$7.00; special prices on lots of 5 or more; Combined Hatcher and Brooder, complete, \$9.00.



POULTRY SUPPLIES

CYPHERS ADAPTABLE HOVER



Cyphers Company Adaptable Hover.
Patented, Fire-Proofed, Insurable,
Self-Ventilating and Self-Regulating.
Side view of Combined Fire-Proof
Heater and Standard Adaptable
Hover, ready for use.

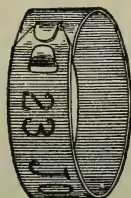
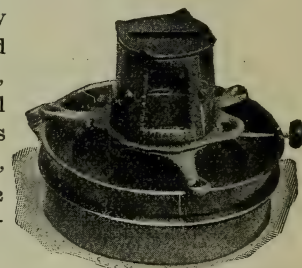
Adapted for use anywhere that is suitable for confining or yarding chicks or ducklings.

Cyphers Adaptable Hover is self-ventilating and self-regulating—every one bearing the Fire Underwriters "Inspected Brooder" label; it is used in each of the four styles of individual brooders manufactured by the Cyphers Incubator Company for 1912. It is also intended to be used separately as a brooding device in colony coops, in portable houses, and in home-made brooders such as goods boxes, piano boxes or organ cases, and can be adapted to other makes of brooders, provided they are twenty-six inches high and of fairly large dimensions otherwise.

Cyphers Company claims that this Fire-Proof Brooder Heater and Standard Adaptable Hover is by far the best device of the kind invented thus far, and we invite the most searching comparison with all other brooder heating systems now on the market. It is only by such comparison that the exclusive features of the Cyphers Fire-Proof Brooder Heater and Standard Adaptable Hover can be fully appreciated. (See main catalogue for fully illustrated description.) Price of Cyphers Adaptable Hover, \$10.00.

CYPHERS SAFETY BROODER STOVE

The safety water pan on the Cyphers Safety Brooder Stove holds nearly a quart of water, and extends out over the entire surface of the oil bowl, thus placing a sheet of cold water between the oil bowl and the flame jets. We have sold thousands of these to persons who build home-made brooders, and they give general satisfaction. Height, $7\frac{1}{2}$ inches; greatest width, $10\frac{1}{2}$ inches. Price of Cyphers Safety Brooder Stoves, each \$2.00.



Leg Bands. It pays to mark your chickens and keep track of the different stock, and also of the hens that lay. Several styles; send for list. Prices, dozen, 15c; 25 for 25c; 50 for 40c; 100 for 65c.

Wire Nests. The handiest and most convenient nest made. Easy to clean; gets rid of all vermin. Each, 25c; 5 for \$1.00.

The Success Automatic Trap. The best trap nest we have ever seen. No. 2, two nests, \$3.50; No. 3, three nests, \$5.00; No. 4, four nests, \$6.50.

Cyphers Chick Markers. The best on the market. Each, 50c.

Reliable Chick Markers. Smaller than the above, but a favorite. Each, 25c.

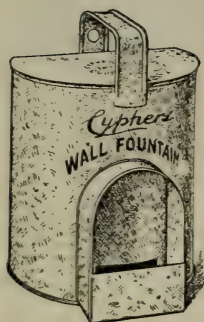
Opal Nest Eggs. Two for 5c; per dozen, 25c.

Medicated Nest Eggs. Used extensively as a lice killer. Each, 10c; 3 for 25c; per dozen, 75c.

Folding Egg Boxes. The best crate made for shipping eggs to be used

for hatching purposes. Well made and will stand lots of knocking about. 15-egg size, 15c; 30-egg size, 25c; 50-egg size, 40c; special prices in dozen lots.

Mann Bone Mills. If interested, send for large catalogue and price list.

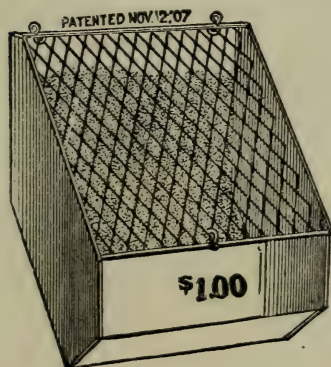


Cyphers Fountains. A handy two-piece fountain; low priced; easy to clean. Will last for many years. Quart size, 25c; 2-quart size, 35c; 1-gallon size, 50c.

Wall Fountains. One of the handiest fountains for both chickens and ducks made. Made to hang up against the wall or any post, and have a hood to protect the water from becoming dirty. Well made out of durable galvanized iron. 1-gallon size, 60c; 2-gallon size, 75c.

Dry Food Hoppers—Cyphers. This is a food saving and labor saving device that soon pays for itself in the amount of feed saved. Well made out of durable material. They will last a life time with ordinary care. Hold about 6 quarts. Each, 75c.

Cyphers Grit and Shell Box. Similar to the Dry Food Hopper shown above, but containing three compartments. Most economical way of feeding bone, shell, grit, beef scraps, etc. Each, 60c.



Boston Dry Food Hoppers. We believe that this hopper is the best device of the kind on sale for the thrifty, up-to-date poultry raisers. Boston Hoppers are made in four sizes, two for adult fowls and two for chicks. Prices, Large dry feed, holds $\frac{1}{2}$ bushel, \$1.00; beef scrap, etc., holds 1 peck, 90c; small chicken size, holds $\frac{1}{2}$ peck, \$1.00; large chicken size, holds 1 peck, \$2.00.

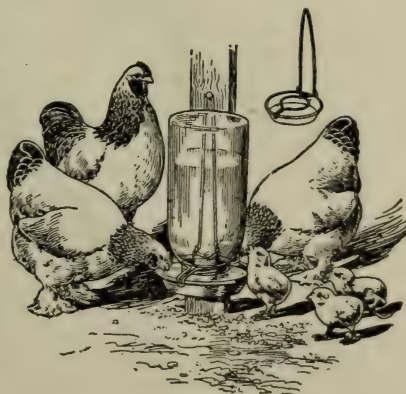
All - Rite Fountains & Self Feeders.

The handiest fountain and feeder on the market. Uses a common Mason jar, either one or two quart size. Price, 20c each, or 6 for \$1.00.

Wire Covered Feeding Troughs. Very convenient for young chicks. Two sizes, small, 35c; large, 40c.

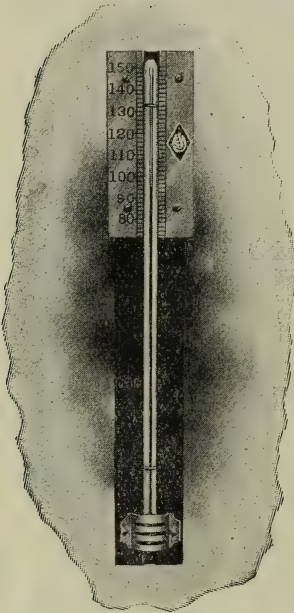
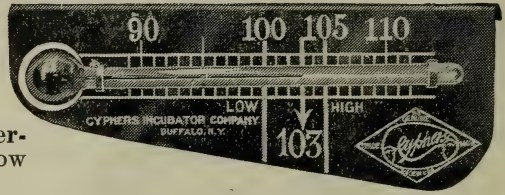
Sanitary Stone Fountains. These are strong and well finished and made in two parts, and are easily kept clean. Half-gallons, 35c; gallon, 50c.

Egg Testers—X Ray. This is made to use on a lamp and fits a No. 2 burner. Each, 25c; by mail, 35c.



INCUBATOR AND BROODER SUPPLIES

Cyphers Tested Incubator Thermometers. The best that we know of. Each, 65c.



Brooder Thermometers. Tested. Each, 50c.

Cyphers Incubator Lamps. No. 0, with burner and wick, \$1.00; No. 1, 2 or 3, \$1.25 each. May also be used for brooders, if desired.

Incubator Lamp Burners. No. 0, each, 35c; No. 1, 50c; No. 2 and 3, 60c.

Oil for Incubators and Brooders. We carry the best oil for this purpose. Prices, 5-gallon can, \$1.30; case, 10 gallons, \$2.50; subject to market.

Wafer Regulators. Each, 75c.

Lamp Wicks. Two for 5c; per dozen, 20c, postpaid.

Cypher's Ready = Mixed Poultry Foods

The Standard Foods for Poultry of All Ages, for All Purposes—Specially Mixed and Balanced Chick Food, Developing Food, Laying Food, Scratching Food and Fattening and Finishing Food, Analyzed and Tested by Government Analysis and Guaranteed.

Cyphers Chick Food. A complete, scientifically compounded food for young chicks. This chick food consists of seven different grains, and is a properly balanced, long tested ration. It is complete for young chickens—no other grain ration being required or advisable. It contains no screenings or weed seed, and therefore no waste. Feed until the chick is about eight weeks old. Prices, 10 lbs. 35c; 25 lbs. 85c; 50 lbs. \$1.60; 100 lbs. \$3.00.

Cyphers Developing Feed. Invaluable for hastening the growth of young stock. This is a special food intended for properly maturing young chicks after they are ready to be weaned from baby chick food. When the chicks are from six to eight weeks old, they are able to eat larger particles of grain than are found in the chick food. Prices, 10 lbs. 35c; 50 lbs. \$1.50; 100, \$2.75.

Cyphers Forcing Food. To be fed when you desire to force the growth of the bird for market or table use. 10 lbs. 30c; 50 lbs. \$1.35; 100, \$2.60.



Cyphers Scratch Food. An idea grain mixture. Affords variety—promotes exercise. The best scratch feed on the market; no waste as all the fine seeds and cracked grain is screened out. 10 lbs. 30c; 50 lbs. \$1.40; 100 lbs. \$2.60.

Cyphers Laying Food. A balanced ration, ready mixed for the daily mash. It is ready mixed with every ingredient necessary for layers. We guarantee that by the use of Cyphers Laying Food better results will be obtained than from any other laying food on the market. 10 lbs. 30c; 50 lbs. \$1.40; 100, \$2.65.

Cyphers Beef or Meat Meal. This is high-grade meat meal product to mix with any mash feed that you may desire to feed. 10 lbs. 40c; 100 lbs. \$3.50.

Cyphers High-Grade Beef Scraps. High protein beef scraps is an invaluable meat food for domestic fowls. It should be fed sparingly to little chicks, the quantity to be increased as they grow older. To half grown and adult fowls it can be fed from the hopper with excellent results. 10 lbs. 50c; 25 lbs. \$1.10; 100 lbs. \$4.00.

POULTRY FOOD

Granulated Bone. Our bone is of the best quality and is something that should be kept before the chickens at all times. Best grade, 10 lbs. 35c; 100 lbs. \$3.00. Ordinary grade, 10 lbs. 30c; 100 lbs. \$2.75.

Beef Scraps. This is one of the most valuable feeds on the market to bring results. Is a great egg producer and also fine for growing chicks. Diamond grade, 10 lbs. 50c; 25 lbs. \$1.10; 100 lbs. \$4.00. Standard grade, 10 lbs. 50c; 25 lbs. \$1.00; 100 lbs. \$3.75.

Blood Meal. A very highly concentrated egg producer. Fine for young chicks. 1 lb. 10c; 10 lbs. 60c; 100 lbs. \$4.50.

Oyster Shells—Crushed. We offer good clean shells, free from dirt and waste. You should keep shells before your hens at all times. In two sizes, poultry and chick. 10 lbs. 20c; 50 lbs. 75c; 100 lbs. \$1.25.

Mixed Shells. A cheap grade of shells. 10 lbs. 15c; 50 lbs. 50c; 100 lbs. 85c.

Grit. Should be kept before your poultry at all times, as they must have “teeth.” Our grit is good and hard, and is what they need. 10 lbs. 20c; 50 lbs. 75c; 100 lbs. \$1.25.

Scratch Feed. This is a fine mixture of various grains, seeds, bone, meat, etc., properly mixed to make the best feed. If you try it once, you will continue to use it. 10 lbs. 30c; 100 lbs. \$2.50.

Egg Food. Makes hens lay when eggs are high. The proper mixture to feed for a mash feed. 10 lbs. 30c; 100 lbs. \$2.50.

Chick Feed. A complete balanced ration for the chicks. Easy to feed just as it is. Makes healthy, vigorous, sturdy chicks. We sold over a carload of this feed last year, and it gives the very best of satisfaction and results. No droopy chicks when you feed our chick feed. 10 lbs. 35c; 25 lbs. 85c; 50 lbs. \$1.60; 100 lbs. \$3.00.

Charcoal. Made especially for poultry. Two sizes, chick and hen.; lb. 10c; 2½ lb. pkg. 20c; 10 lbs. 60c; 50 lbs. \$2.00.

Alfalfa Meal. Fine for winter feed. Supplies the green feed needed. 10 lbs. 20c; 100 lbs. \$1.15.

Ground Pepper. Lb. 25c.

Grain for Feed. We handle all kinds of grain, wheat, oats, corn, barley, either whole, rolled or cracked as wanted.

Mill Feed. Always have in stock, bran, shorts, etc.

POULTRY TONICS

Prussian Poultry Tonic. Makes hens lay, makes them pay. An excellent remedy for cholera and disease. Pkgs. 25c and 50c; 12-lb. pail, \$1.75.

International Poultry Food. This well known food has been on the market many years and gives good satisfaction. Pkgs. 25c and 50c.

Germozone. Cures roup, cholera, canker, etc. Liquid, 50c a bottle; tablet, 50c a pkg.

Conkey's Laying Tonic. A new article that is doing all that they claim for it. A fine egg producer. Pkgs. 25c, 50c and \$1.00; 12-lb. pail, \$1.75.

LICE KILLERS—LIQUIDS

Conkey's Lice Paint. Qt. 35c; ½ gal. 50c; 1 gal. \$1.00.

Lee's Lice Killer. Qt. 35c; ½ gal. 60c; 1 gal. \$1.00.

Carbolineum. Qt. 40c; ½ gal. 70c; 1 gal. \$1.25.

Cyphers Lice Paint. Used to paint the house and nests and will certainly kill the lice and mites. Qt. can, 35c; ½-gal. can, 60c.

LICE POWDERS

Conkey's. Pkg. 25c and 50c.

Prussian. Pkg. 25c and 50c.

Cyphers. Pkg. 25c.

Lee's. Pkg. 25c.

CONKEY'S REMEDIES



HATCHED RIGHT?

Look out now for that white, pasty symptom called **White Diarrhea**.

It may occur anytime from the 3rd day to the 4th week of the hatch. Incurable? Not now! We have **Conkey's White Diarrhea Remedy** this season, a new discovery. Saves chicks even badly affected. Better have a package, price 50c. Use it anyway, in the drinking water as a preventive. It's Chick insurance; why lose from 65 to 100 per cent of the hatch?

Roup Remedy. Pkg. 25c and 50c.

Cholera Remedy. Pkg. 25c and 50c.

Bronchitis Remedy. Pkg. 50c.

Chicken Pox Remedy. Pkg. 50c.

Poultry Worm Remedy. Pkg. 50c.

White Diarrhoea Remedy. Pkg. 50c.

Gape Remedy. Pkg. 50c.

Scaly Leg Remedy. Pkg. 50c.

Rheumatic Remedy. Pkg. 50c.

Poultry Tonic. Pkg. 25c.

Limber Neck Remedy. Pkg. 50c.

Poultry Laxative. Pkg. 50c.

STOCK FOODS, TONICS AND REMEDIES

Prussian Stock Tonic. This is one of the best condition powders and tonics that we have ever handled. It gives fine results for all kinds of stock. Pkgs. 25c, 50c and \$1.00; 12-lb. pail, \$1.75; 25-lb. pail, \$3.50.

Prussian Heave Cure. This is a certain and sure cure for heaves if taken

in time. If the horse is so far gone that it will not cure him, it will improve and make him a great deal better. Pkgs. 50c.

Prussian Cough and Distemper Cure. This is a sure cure for distemper. Pkgs. 50c.

Prussian Worm Powders. Always cures.. Pkgs. 50c.

Prussian Calf Tonic. A scientific preparation for young stock. Takes the place of cow's milk. We have sold it for several years, and it gives fine results. Pkgs. 50c; 12-lb. pail, \$1.75.

Prussian Spavin Cure. A good remedy. Price, per bottle, \$1.00.

Prussian Barbed Wire Liniment. For cuts, wounds, etc. Bottle, 50c.

Prussian Healing Oil. For wounds, cuts, abrasions and other hurts on man or beast. Bottle, 50c.

Prussian Gall Cure. Work the horse while it cures. Pkg. 25c and 50c.

International Stock Food. One of the best on the market, and an old standby. Pkgs. 25c, 50c and \$1.00; 25-lb. pail, \$3.50.

International Worm Powders. A sure cure for worms in stock. Pkg. 50c.

International Heave Cure. One of the best heave cures on the market. Pkg. 50c.

Kow Kure. This is the best cow remedy we have ever sold. It gives fine results, and every one with a cow ought to keep and feed it at all times. Pkgs. 50c and \$1.00.

Garget Cure. Said to be a sure cure for the garget. Pkg. 50c.

Bag Balm. This is a fine remedy and cure for sore and chapped bags. Can, 50c.

Conkey's Stock Tonic. This is a great tonic for all kinds of stock and is highly recommended. Pkgs. 25c, 50c and \$1.00; 12-lb. pail, \$2.00; 25-lb. pail, \$3.50.

FLY SPRAYS

So-Boss-So. This is one of the best things that we have ever sold. It keeps them off. Qt. 35c; gal. \$1.25.

Conkey's. We first introduced this the past season and it gave the very best of results. One of the best fly sprays we have handled. Qt. 35c; ½ gal. 60c; 1 gal. \$1.00.

SPRAY MATERIALS

We carry the largest stock of the most reliable spray materials in the city. You will find that our prices are the lowest that can be made on first-class goods. You do not want to use anything but the best, as it is money thrown away to use poor spray materials.

Sulphur and Lime Solution. We handle the Dependable brand of spray, and can recommend it very highly. It is sold to conform with the state laws, and is guaranteed to test as marked. For winter spraying use one gallon of the spray to nine gallons of water. Ready to use. Prices, 1 gal. in bulk, 25c; with can, 30c; 5 gal. in bulk, \$1.00; with can, \$1.20; per barrel, \$9.00, with allowance of \$1.00 for return of barrel in good shape. If to be shipped in cans, allow 10c extra for one-gallon cans and 20c per 5 gallons for crating and packing.

Black Leaf 40. The best spray on the market for aphids, lice, etc. ½-lb. can, \$1.00; 2½-lb. can, \$3.50; 10½-lb. can, \$14.00.

Arsenate of Lead. The great summer spray. Now used for codling moth, the canker worm, caterpillars, grape insects, rose bugs, etc. It is the specific

remedy against all leaf-eating insects. Will not burn the most tender foliage. 1-lb. can, 25c; 2-lb. can, 40c; 5 lbs. 85c; 10 lbs. \$1.50; 20 lbs. \$2.75; 50 lbs. \$6.00.

Sulphur. A good grade of sulphur for spraying, etc. Lb. 5c; 10 lbs. 40c; 100 lbs. \$2.25.

Refined Sulphur. For spraying grapes, etc. Lb. 5c; 10 lbs. 50c; 100 lbs. \$3.

Lime. The famous Roche Harbor Lime is the best grade on the market for all purposes. 10 lbs. 20c; 100 lbs. \$1.50; barrel, \$2.10.

Bluestone. The best grade for spraying. lb. 10c; 100 lbs. \$7.00, subject to market.

Grafting Wax. $\frac{1}{4}$ -lb. bar, 10c; $\frac{1}{2}$ -lb. bar, 20c; 1 lb. 35c; postage, 18c per lb. extra.

Beeswax. Lb. 50c.

Rosin. Lb. 10c; 10 lbs. 75c.

FERTILIZERS

Our stock of fertilizers is manufactured by one of the best and most reliable firms, and will run true to analysis. Special prices on quantity lots.

No. 1, General Fertilizer. An all-around fertilizer, better than Standard, which can be used on any crop, but is especially adapted for grain and general farm crops. Price, 100 lbs. \$2.00; per ton, \$38.00.

No. 4, Fruit. For all kinds of fruit, especially strawberries, blackberries, raspberries, etc. Price, 100 lbs. \$2.10; per ton, \$40.00.

No. 5, Lawn Dressing. The finest lawn fertilizer that you can get; 100 pounds to the city lot. No weeds; all fertilizer. 10 lbs. 50c; 25 lbs. 85c; 50 lbs. \$1.35; 100 lbs. \$2.35.

Nitrate of Soda. For immediate results Nitrate of Soda is the very best for stimulating and forcing the growth of plants and other crops. Per lb. 5c; 100 lbs. \$3.50.

Superphosphate. This is a concentrated form of phosphoric acid, and is the cheapest way to buy it. Per lb. 5c; 100 lbs. \$2.00.

Ground Bone. Pure bone, finely ground, is one of the best fertilizers. 10 lbs. 35c; 100 lbs. \$2.50.

Muriate of Potash. One of the most important fertilizing elements. Per lb. 5c; 100 lbs. \$3.50; 224-lb. sack, \$7.50.

Utah Land Plaster. Made from pure gypsum, free from clay or other foreign matter. Fine for clover, vetch, etc. 100 lbs. 80c; per ton, \$15.00.

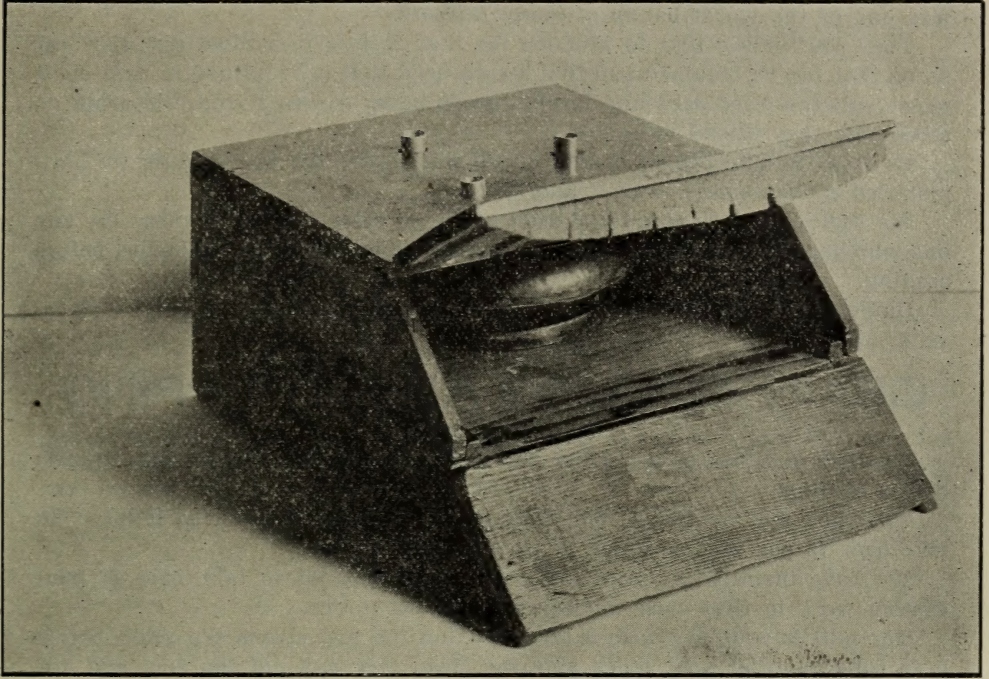
Hop and Onion Fertilizer. A fertilizer made especially for hops and onions; very rich in potash, and when used freely has been known to double the yield. 100 lbs. \$2.50; $\frac{1}{2}$ ton, \$22.00; tons, \$42.00; special prices on quantity lots and to outside points for direct shipment.

Fish Guano. Do not carry in stock, but will order at any time. 100 lbs. \$2.50; ton, \$45.00; subject to market changes.

Other Fertilizers. Any kind not listed above will be ordered at market prices at any time.

WITHAM BROODERS

A New Brooder, Manufactured Here, That is Giving the Best of Satisfaction



Brooder Complete, with Lid Raised

Size of Brooder: The medium size is 4x4½ feet, 2 feet high at the highest point. The roof is covered with galvanized iron No. 30, put on over the boards to prevent leaking. The heater is 6 inches thick, 2 feet in diameter, making about 6 feet of hovering space for the chicks. Heater is made of galvanized iron No. 26, or copper, and will accommodate 150 chicks.

MADE IN THREE SIZES

(Galvanized Iron Heater

Capacity 200	Chicks	-	-	-	-	-	-	\$17.00
“ 150	“	-	-	-	-	-	-	15.00
“ 100	“	-	-	-	-	-	-	12.50

GRAIN AND SEED CLEANING

Old style farming is going out of fashion, as it is proving unprofitable. The habit of sowing grain or seeds just as it is harvested, weed seed and all, was one of the worst habits of many farmers.

They are finding that to produce the best results they must sow the best seeds that can be obtained and that means seed that is recleaned in first-class shape; all the weed seed and foreign seeds being removed from the grain or seeds that they intend to sow.

In order to take proper care of those who desire the best results we have installed a first-class power cleaner.

We reclean all the seeds and seed grain we sell; also do cleaning for any one who has their own grain or seeds and desire to have them recleaned before seeding.

Our charges are reasonable and we guarantee the quality of our work.

GRAIN ROLLING AND CHOPPING

Farmers and feeders generally find it far more economical to roll all grain before feeding.

All stock will do better, and it is a large saving in feed, as it does not take over 75 per cent as much as in the whole grain.

We have installed a large roller and are prepared to take care of your custom work in first class shape and on short notice.

Our mill is equipped with a large suction fan and cleans the grain before it is rolled so that your stock gets the clean feed and not the dust and dirt as from the usual milling process.

You will find our prices as low as first-class work may be done for.

D. A. WHITE & SONS

Mill and Cleaner at Warehouse on Front Street, around the corner from store

130 North Front Street

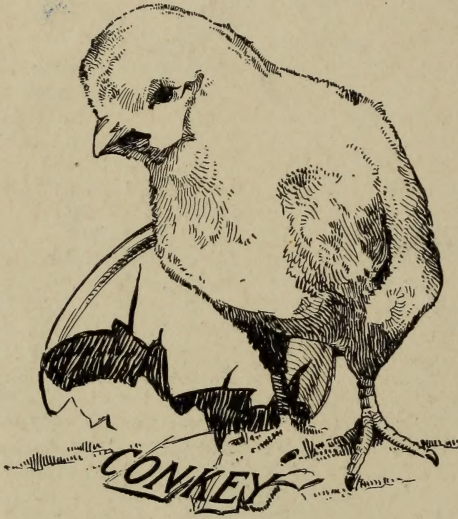
WEIGHT OF VARIOUS ARTICLES PER BUSHEL

	Lbs.		Lbs.		Lbs.
Flax Seed	56	Peas, Smooth	60	Wheat	60
Charcoal	22	Peach Pits	48	Vetches	70
Corn, Shelled	56	Orchard Grass	14	Timothy	45
Clover Seed	60	Onion Sets	32	Speltz	40
Cheat	32	Oats	32	Red Top, solid seed.	42
Canary Seed	60	Millet	50	Red Top	14
English	24	Meadow Fescue	24	Rye	56
Kentucky	14	Lawn Grass	20	Rape	60
Blue Grass—		Hungarian	48	Potatoes	60
Buckwheat	48	Hemp Seed	14	Perennial Rye	20
Beans	60	otherwise stated ...	14	Peas, Wrinkled	56
Barley	48	Grass Seed (unless			

QUANTITY OF SEED TO PRODUCE A GIVEN NUMBER OF PLANTS AND SOW AN ACRE

	Per acre		Per acre
Artichoke, 1 oz to 500 plants.....	6 oz	Horseradish roots ...	10,000 to 15,000
Asparagus, 1 oz to 800 plants.....	1 lb	Kale, 1 oz to 2000 plants	2 oz
Asparagus roots	5000 to 10,000	Kaffir Corn, in drills	6 to 8 lb
Barley	2 to 2½ bu	Kohl Rabi, 1 oz to 2000 plants....	4 oz
Beans, dwarf, 1 lb to 100 ft drill.1 bu		Leek, 1 oz to 100 ft of drill.....	4 lb
Beans, pole, 1 lb to 100 hills.....	½ bu	Lettuce, 1 oz to 150 ft of drill....	3 lb
Beet, garden, 1 oz to 100 ft drill...7 lb		Millet, for seed	20 lb
Beet, mangel, 1 oz to 75 ft drill...5 lb		Millet, for hay	30 lb
Broccoli, 1 oz to 2000 plants4 oz		Melon, Musk, 2 oz to 100 hills.2 to 3 lb	
Brussels Sprouts, 1 oz to 2000		Melon, Water, 4 oz to 100 hills	
plants	4 oz		3 to 4 lb
Broomcorn, in drills	15 lb	Oats	2 to 3 bu
Buckwheat	½ to 1 bu	Okra, 1 oz to 100 ft of drill	8 lb
Cabbage, 1 oz to 2000 plants4 oz		Onion Seed, for sets	60 to 85 lb
Carrot, ½ oz to 100 ft of drill....3 lb		Onion, 1 oz to 150 ft of drill...3 to 4 lb	
Cauliflower, 1 oz to 3000 plants...3 oz		Onion Sets, 1 qt to 40 ft drill....8 bu	
Celery, 1 oz to 5000 plants	4 oz	Parsnips, 1 oz to 150 ft of drill...3 lb	
Cheat	2 bu	Parsley, 1 oz to 150 ft of drill....3 lb	
Chicory	4 bu	Peas, Field	2 bu
Clover, Alsike and White ...8 to 10 lb		Peas, Garden, 1 lb to 100 ft of drill	
Clover, Alfalfa	15 to 20 lb		1 to 2 bu
Clover, Crimson Trefoil ...10 to 15 lb		Pepper	1 to oz to 1000 plants
Clover, Red	10 to 12 lb	Pumpkin, ½ lb to 100 hills...3 to 4 lb	
Collards, 1 oz to 2000 plants....4 oz		Radish, 1 oz to 100 ft of drill...10 lb	
Corn, Pop (shelled)	8 to 10 lb	Rape	3 to 5 bu
Corn, Sweet or Field, hills.12 to 20 lb		Rye	1½ to 2 bu
Corn, for soiling, drills	2 bu	Salsify, 1 oz to 100 ft of drill....6 lb	
Cress, ¾ oz to 100 ft of drill....1 lb		Speltz	100 lb
Cucumbers, 1 oz to 100 hills...2 to 3 lb		Spinach, 1 oz to 100 ft of drill ...8 lb	
Egg Plant, 1 oz to 2000 plants...4 oz		Sugar Cane, in drills	10 lb
Endive, ¼ oz to 100 ft of drill ...4 lb		Sunflower	8 lb
Flax, broadcast	¾ bu	Squash, Summer, 4 oz to 100 hills.3 lb	
Grass, Blue, Kentucky	2 bu	Squash, Winter, 8 oz to 100 hills.4 lb	
Grass, Meadow Fescue	1 bu	Tomato, 1 oz to 2000 plants4 oz	
Grass, Mixed Lawn	5 to 6 bu	Tobacco, 1 oz to 4000 plants ...3 oz	
Grass, Red Top, chaff	2 bu	Turnip, 1 oz to 150 ft drill...5 to 3 lb	
Grass, Red Top, solid seed.12 to 15 lb		Vetch	1½ to 2 bu
Grass, Timothy	12 to 15 lb	Vetch with grain	1 bu
Grass, Orchard, Perennial, Rye,		Wheat ...	1½ to 2 bu
Fowl Meadow, Wood Meadow...2 bu			

The Largest Poultry Supply House in the Willamette Valley



A Complete Stock of the Reliable Conkey Remedies

D. A. WHITE & SONS

Wholesale and Retail

FEEDMEN AND SEEDMEN

POULTRY AND BEE SUPPLIES

251-261 State St.

Salem, Ore.